

# McMURRY UNIVERSITY

South 14th and Sayles Boulevard  
ABILENE, TEXAS 79697-2339  
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Office of Admissions: 1-800-460-2392  
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[www.mcm.edu](http://www.mcm.edu)

## 2012-2013 CATALOG

McMurry University is accredited by the  
Commission on Colleges of the Southern Association of  
Colleges and Schools to award baccalaureate and master's degrees.  
Contact the Commission on Colleges at 1866 Southern Lane, Decatur,  
Georgia 30033-4097 or call 404-679-4500 for questions about the  
accreditation of McMurry University.

*also accredited by*  
University Senate of the United Methodist Church  
Texas Education Agency  
Commission on Collegiate Nursing Education (BSN Program)

*member of*  
National Association of Schools and Colleges of the United  
Methodist Church  
Independent Colleges and Universities of Texas  
Texas United Methodist College Association  
National Collegiate Honors Council  
Council of Independent Colleges  
National Association of Independent Colleges & Universities  
Council on Undergraduate Research  
Association of Governing Boards

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(USPS 074 - 540)  
2012-2013

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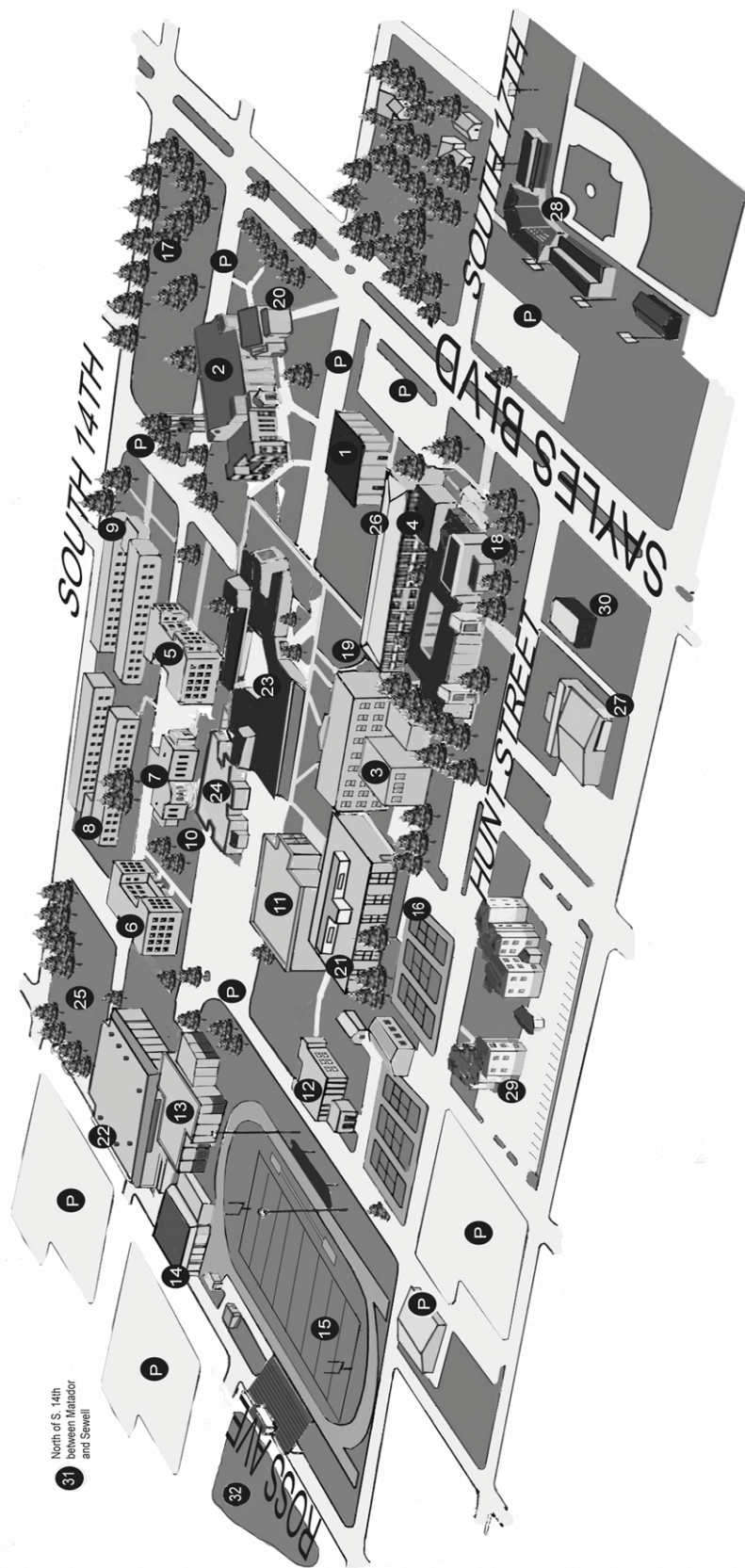
## **DISCLAIMER**

*While this catalog accurately reflects the programs, policies, and requirements at the time of printing, the University reserves the right to change or amend this catalog in any way as may be deemed necessary.*

*The Catalog of McMurry University is, in effect, an agreement between the student and the University. It contains information concerning the academic requirements and other regulations of the University.*

*Familiarizing yourself with its provisions will allow you to avoid many of the misunderstandings, delays, and difficulties which otherwise will confront you as you seek to meet the requirements for matriculation and graduation.*

Cover By Le'ann Ardoyno



31 North of S. 14th  
between Maador  
and Sewell

- |   |  |  |
|---|--|--|
| 1. C. E. Maedgen Administration Building      | 12. Bynum Band Hall                                      | 23. Shirley L. & Mildred Garrison United Methodist Campus Center |
| 2. Radford Memorial Auditorium                | 13. Phillips Family Student Activity Center              | 24. J. E. and L. E. Mabree Dining Hall                           |
| 3. Old Main Building                          | 14. R. M. Medley Field House                             | 25. Athletic Practice Field                                      |
| 4. Harold Groves Cooke Liberal Arts Building  | 15. Wilford Moore Stadium                                | 26. Ko Sari Oak Grove  |
| 5. P Resident Residence Hall                  | 16. Seidel-Swagerty Tennis Center                        | 27. Chapin Art Building  |
| 6. Gold Star Memorial Residence Hall          | 17. Wah Wahtaysee Park                                   | 28. Walt Driggers Baseball Field                                 |
| 7. Iris Graham Education Building             | 18. Amy Graves Ryan Fine Arts Center                     | 29. Student Apartment Complex                                    |
| 8. James Winford Hunt Memorial Residence Hall | 19. Sacred Wind Sculpture Garden                         | 30. Gypsy Ted Art Gallery  |
| 9. Martin Residence Hall                      | 20. Furr Welcome Center                                  | 31. Rigdon Edwards Soccer Field                                  |
| 10. T.I.P. Anchor Garden                      | 21. Finch-Gray Science Center                            | 32. Bobby Carter Throws Complex                                  |
| 11. Jay-Rollins Library                       | 22. J.W. Hunt Physical Education Center (Kimbrell arena) | P Parking  |

**McMURRY UNIVERSITY ACADEMIC CALENDAR  
2012 - 2013**

<b>Fall 2012 Term</b>		<b>August 27 - December 14</b>
<b>Mini I Term</b>		<b>August 27 - October 17</b>
<b>Mini II Term</b>		<b>October 18 - December 14</b>
<b>August</b>		
21	New Faculty Meeting	
22	Faculty Meeting	8:30 am
22	Residence Halls Open for Freshmen	
23-26	War Hawk Welcome Week	
23	Faculty Retreat 8:00 am - 5:00 pm	
24	Academic Advising and late Registration	8:00 am - 5:00 pm
27	Classes Begin 8:00 am	
31	Last Day to Add a Course for Mini I Term	
31	Last Day to Register or Add a Full Term Course	
<b>September</b>		
1	Graduation Application Deadline for May and August 2013 Graduates	
4	Fall Convocation	11:00 am
5	Census Day 5:00 pm	
14	Last Day to Drop a Course for Mini I Term with a "W"	
<b>October</b>		
5	Last Day to Drop a Full Term Course With a "W"	
10	Last Day to Drop a Course or Withdraw for Mini I Term	
10	Last Day to Submit Mini I Term Administrative Drops	
17	Official End of Mini I Term	
18	First Day of Classes for Mini II Term	
22	Final Grades for Mini I Term due in Registrar's Office 5:00 pm	
24	Last Day to Add a Course for Mini II Term	
24	Mid-Term Grades Due in Registrar's Office 5:00 pm	
25-28	<b>Homecoming (No Classes on Friday)</b>	
26	Board of Trustees Meetings	
<b>November</b>		
8	Last Day to Drop a Course for Mini II Term with a "W"	
12	Registration For Spring 2012 Semester	
21-23	Thanksgiving Recess	
26	Classes Resume after Thanksgiving Recess	
<b>December</b>		
7	Last Day to Drop a Course or Withdraw From Mini II Term	
7	Last Day to Drop a Full Term Course	
7	Last Day to Withdraw From the University	

## McMURRY UNIVERSITY ACADEMIC CALENDAR 2012 - 2013

<b>December</b>	
7	Last Day to Submit Administrative Drops
10-14	Final Examinations
14	Official End of the Fall Semester
15	Commencement
17	Final Grades due in Registrar's Office 10:00 am
<b>Spring 2013 Term</b>	<b>January 14 - May 10</b>
<b>Mini I Term</b>	<b>January 14 - March 8</b>
<b>Mini II Term</b>	<b>March 18 - May 10</b>
<b>January</b>	
11	Academic Advising and Late Registration 8:00 - 5:00 pm
14	Classes Begin
18	Last Day to Register or Add a Course for Mini I Term
18	Last Day to Register or Add a Full Term Course
21	Martin Luther King Holiday
24	Census Day 5:00 pm
<b>February</b>	
1	Graduation Application Deadline for December 2013 Graduates
4	Last Day to Drop a Course for Mini I Term with a "W"
22	Last Day to Drop a Full Term Course with a "W"
<b>March</b>	
1	Last Day to Drop a Course or Withdraw for Mini I Term
1	Last Day to Submit Mini I Term Administrative Drops
6	Mid-Term Grades Due in Registrar's Office 5:00 pm
8	Official End of Mini I Term
11-15	Spring Break
12	Final Grades for Mini I Term due in Registrar's Office 5:00 pm
18	Classes Resume After Spring Break by 8:00 am
18	First Day of Class for Mini II Term
22	Last Day to Add a Course for Mini II Term
22	Board of Trustees Meeting
29	Easter Holiday
<b>April</b>	
1	Easter Holiday
8	Registration for May, Summer and Fall begins
9	Last Day to Drop a Course for Mini II Term with a "W"
<b>May</b>	
3	Last day to Drop a Course or Withdraw form Mini II Term

## McMURRY UNIVERSITY ACADEMIC CALENDAR 2012 - 2013

<b>May</b>	
<b>3</b>	Last Day to Drop a Full Term Course
<b>3</b>	Last Day to Withdraw from the University
<b>3</b>	Last Day to Submit Administrative Drops
<b>6-10</b>	Final Exams
<b>10</b>	Official End of Spring Semester
<b>11</b>	Commencement
<b>14</b>	Final Grades Due in Registrar's Office 5:00 p.m.
<b>May Term 2013</b>	<b>May 13 - May 31</b>
<b>13</b>	Classes Begin
<b>13</b>	Last Day to Register or Add a Course
<b>14</b>	Census Day 5:00 pm
<b>15</b>	Last Day to Drop a Course with a "W"
<b>23</b>	Last Day to Drop a Course or Withdraw from the University
<b>23</b>	Last Day to Submit Administrative Drops
<b>27</b>	Memorial Day Holiday
<b>31</b>	Official End of May Term
<b>Summer I 2013</b>	<b>June 3 - July 5</b>
<b>June</b>	
<b>3</b>	Classes Begin
<b>4</b>	Final May Term Grades due in Registrar's Office 5:00 pm
<b>4</b>	Last Day to Register or Add a Course
<b>5</b>	Census Day 5:00 pm
<b>18</b>	Last Day to Drop a Course with a "W"
<b>27</b>	Last Day to Drop a Course or Withdraw from the University
<b>27</b>	Last Day to Submit Administrative Drops
<b>July</b>	
<b>4</b>	July 4 <sup>th</sup> Holiday
<b>5</b>	Official End of Summer I
<b>Summer II 2013</b>	<b>July 8 - August 9</b>
<b>8</b>	Classes Begin
<b>9</b>	Final Summer I Grades Due in Registrar's Office 5:00 pm
<b>9</b>	Last Day to Register or Add a Course
<b>10</b>	Census Day
<b>23</b>	Last Day to Drop a Course with a "W"
<b>August</b>	
<b>1</b>	Last Day to Drop A Course or Withdraw from the University

**McMURRY UNIVERSITY ACADEMIC CALENDAR  
2012 - 2013**

<b>August</b>	
<b>1</b>	Last Day to Submit Administrative Drops
<b>9</b>	Official End of Summer II
<b>13</b>	Final Grades due in Registrar's Office 5:00 pm

Calendar

2012

S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S					
<b>JANUARY</b>							<b>FEBRUARY</b>							<b>MARCH</b>							<b>APRIL</b>											
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8	9	10	11	12	13	14	12	13	14	15	16	17	18	11	12	13	14	15	16	17	8	9	10	11	12	13	14					
15	16	17	18	19	20	21	19	20	21	22	23	24	25	18	19	20	21	22	23	24	15	16	17	18	19	20	21					
22	23	24	25	26	27	28	26	27	28	29	25	26	27	28	29	30	31	22	23	24	25	26	27	28								
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<b>MAY</b>							<b>JUNE</b>							<b>JULY</b>							<b>AUGUST</b>											
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13	14	15	16	17	18	19	17	18	19	20	21	22	23	15	16	17	18	19	20	21	12	13	14	15	16	17	18					
20	21	22	23	24	25	26	24	25	26	27	28	29	30	22	23	24	25	26	27	28	19	20	21	22	23	24	25					
27	28	29	30	31									29	30	31	26	27	28	29	30	31											
<b>SEPTEMBER</b>							<b>OCTOBER</b>							<b>NOVEMBER</b>							<b>DECEMBER</b>											
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9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15					
16	17	18	19	20	21	22	21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22					
23	24	25	26	27	28	29	28	29	30	31	25	26	27	28	29	30	23	24	25	26	27	28	29	30	31							
30																																

2013

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<b>JANUARY</b>							<b>FEBRUARY</b>							<b>MARCH</b>							<b>APRIL</b>									
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12	13	14	15	16	17	18	16	17	18	19	20	21	22	14	15	16	17	18	19	20	11	12	13	14	15	16	17			
19	20	21	22	23	24	25	23	24	25	26	27	28	29	21	22	23	24	25	26	27	18	19	20	21	22	23	24			
26	27	28	29	30	31	30	29	30	31	28	29	30	31	25	26	27	28	29	30	31	25	26	27	28	29	30	31			
<b>SEPTEMBER</b>							<b>OCTOBER</b>							<b>NOVEMBER</b>							<b>DECEMBER</b>									
1	2	3	4	5	6	7	6	7	8	9	10	11	12	3	4	5	6	7	8	9	1	2	3	4	5	6	7			
8	9	10	11	12	13	14	13	14	15	16	17	18	19	10	11	12	13	14	15	16	8	9	10	11	12	13	14			
15	16	17	18	19	20	21	20	21	22	23	24	25	26	17	18	19	20	21	22	23	15	16	17	18	19	20	21			
22	23	24	25	26	27	28	27	28	29	30	31	24	25	26	27	28	29	30	22	23	24	25	26	27	28					
29	30													29	30	31	29	30	31	29	30	31								

2014

S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S					
<b>JANUARY</b>							<b>FEBRUARY</b>							<b>MARCH</b>							<b>APRIL</b>											
				1	2	3	4	2	3	4	5	6	7	8	2	3	4	5	6	7	8				1	2	3	4	5			
5	6	7	8	9	10	11	9	10	11	12	13	14	15	9	10	11	12	13	14	15	6	7	8	9	10	11	12					
12	13	14	15	16	17	18	16	17	18	19	20	21	22	16	17	18	19	20	21	22	13	14	15	16	17	18	19					
19	20	21	22	23	24	25	23	24	25	26	27	28	23	24	25	26	27	28	29	20	21	22	23	24	25	26						
26	27	28	29	30	31								30	31	27	28	29	30														
<b>MAY</b>							<b>JUNE</b>							<b>JULY</b>							<b>AUGUST</b>											
					1	2	3	1	2	3	4	5	6	7				1	2	3	4	5					1	2	3			
4	5	6	7	8	9	10	8	9	10	11	12	13	14	6	7	8	9	10	11	12	3	4	5	6	7	8	9					
11	12	13	14	15	16	17	15	16	17	18	19	20	21	13	14	15	16	17	18	19	10	11	12	13	14	15	16					
18	19	20	21	22	23	24	22	23	24	25	26	27	28	20	21	22	23	24	25	26	17	18	19	20	21	22	23					
25	26	27	28	29	30	31	29	30	27	28	29	30	31	27	28	29	30	31	24	25	26	27	28	29	30							
<b>SEPTEMBER</b>							<b>OCTOBER</b>							<b>NOVEMBER</b>							<b>DECEMBER</b>											
				1	2	3	4	5	6	5	6	7	8	9	10	11	2	3	4	5	6	7	8				1	2	3	4	5	6
7	8	9	10	11	12	13	12	13	14	15	16	17	18	9	10	11	12	13	14	15	7	8	9	10	11	12	13					
14	15	16	17	18	19	20	19	20	21	22	23	24	25	16	17	18	19	20	21	22	14	15	16	17	18	19	20					
21	22	23	24	25	26	27	26	27	28	29	30	31	23	24	25	26	27	28	29	21	22	23	24	25	26	27						
28	29	30												30	28	29	30	31	28	29	30	31										



## FROM THE PRESIDENT

WELCOME TO MCMURRY UNIVERSITY!

McMurry University is pleased to offer this catalog of programs. Collectively, these programs define the McMurry Experience, an experience that is marked by opportunities for student achievement in all aspects of our campus activities. This experience is guided by our five Core Values:

*Christian Faith as the foundation of life,  
Personal Relationships as the catalyst for life,  
Learning as the journey of life,  
Excellence as the goal of life, and  
Service as the measure of life.*

Whether in McMurry's rigorous academic programs, in the variety of our student activities, or on the fields of intercollegiate athletic competition, students will be challenged to achieve and develop the character and leadership attributes so vital to responsible and ethical citizenship in the twenty-first century.

McMurry University is committed to providing the full range of opportunities in which students will be encouraged and motivated to achieve. The values and lessons reinforced at McMurry University, both in the classroom and outside the classroom, will prepare students of today to be leaders of tomorrow. That is our mission...that is our vision.

John H. Russell, Ph.D.  
President, McMurry University

# GENERAL INFORMATION

Introduction to McMurry

Campus Life

Admission Procedures

Financial Information

## Mission

# INTRODUCTION TO McMURRY

## MISSION OF McMURRY UNIVERSITY

*The mission of McMurry University is to provide a Christian liberal arts and professional education that prepares students for a fulfilling life of leadership and service.*

**The University fulfills this mission by fostering a campus culture that is distinctive in the following ways:**

### **McMurry is shaped by the Christian faith.**

As a United Methodist institution grounded in the Wesleyan traditions of intellectual achievement and vital piety, McMurry nurtures and cares for each student as a unique individual, helps students through the many challenges of higher education, and provide the resources necessary to help students grow as whole persons spiritually, emotionally, morally, intellectually, socially, and physically. Our pursuit of academic excellence is supported by our belief that truth, in a universe created by God, is nothing to fear. We honor the Creator when we use our minds for their intended purpose of learning in ways unhindered by prejudice or ignorance.

### **McMurry provides a liberal arts education to every student.**

We believe that the liberal arts are the foundation of an examined, informed, and worthwhile life. Throughout the general education curriculum, all students engage questions of goodness, truth, and beauty as they have been interpreted by the leading lights of ancient and modern civilizations. Through the liberal arts, our students develop an abiding sense of personal integrity, an informed appreciation for the perspectives of others, and a clear vision of their moral and spiritual identity.

### **McMurry prepares students for a fulfilling life of leadership and service.**

On the basis of our shared liberal arts background, McMurry students pursue studies that prepare them for a variety of worthwhile careers. McMurry's extracurricular activities, programs, and organizations give students practical experience in leadership and service. Whether entering professional life upon graduation or going on to graduate study, students leave our campus with a solid basis for a fulfilling life of leadership and service in their chosen professions and their civic and religious communities.

### **McMurry expects and enables excellence throughout the University community.**

We believe that our distinctive campus culture will flourish only if all members of the McMurry community strive for excellence. We commit ourselves to high expectations for everyone at McMurry - students, faculty, administrators, trustees, and staff - and to provide the human and financial resources necessary for meeting those exacting standards. We aim to be a community in which students expand their intellectual and cultural horizons as they develop an enthusiasm for lifelong learning. We pledge to hold our students accountable to the highest possible standards of academic achievement and to provide excellent professors who will help them meet these expectations.

## HISTORY.

McMurry College was voted into being at the annual session of the Northwest Texas Conference of the Methodist Church in October, 1920, at Clarendon, Texas. The College was established at Abilene upon an offer of inducements from the Chamber of Commerce and other benefactors. The construction of the first building, now the Old Main Building, was begun in the spring of 1922. By action of the same conference which established the school, Dr. J.W. Hunt was elected its first president. Under his direction the College opened its doors in September, 1923.

McMurry University is the legal and spiritual successor to four historic educational institutions of West Texas and New Mexico, namely, Stamford College, Clarendon College, Western College and Seth Ward College. McMurry is now the custodian of some records of these colleges and has incorporated their ex-students into the Alumni and Ex-Students Association of McMurry University. In 1947, the Dallas Institute of Vocal and

Dramatic Art was merged with McMurry College, contributing increased strength to the College's academic and fine arts facilities. By action of the McMurry College Board of Trustees in October 1989, McMurry College was renamed McMurry University effective with the beginning of the 1990 Fall Semester. This change was accompanied by the creation of a College of Arts and Sciences, School of Business, School of Education, and the Patty Hanks Shelton School of Nursing, as well as significant curricular innovations. McMurry University is recognized as an innovative, liberal arts university offering quality liberal arts, pre-professional, and professional undergraduate education to its students. Thousands of her alumni are serving with distinction in significant positions throughout America. In recent years McMurry has made a particularly enviable record in the sound preparation of young men and women for careers in business, science, education, and the Christian ministry.

## CAMPUS BUILDINGS AND FACILITIES

**ADMINISTRATION BUILDING.** The C.E. Maedgen Administration Building, completed in 1962, houses the administrative offices of the University. This structure will remain as a lasting tribute to the late Mr. and Mrs. C.E. Maedgen of Lubbock, Texas.

**BAND HALL.** This two-story structure contains a large rehearsal room, offices, practice rooms, and storage rooms. The funds for its construction were provided through the generous gifts of foundations and alumni and friends of the McMurry Band Program. A total renovation was completed in 2008.

### **BOBBY LEE CARTER THROWS COMPLEX**

Dedicated in April 2011, the Bobby Lee Carter Throws Complex, located just to the west of Wilford Moore Stadium, is one of the finest small college state-of-the-art throws facilities for the shot put, discus, hammer throw and javelin events. The facility has been enclosed by an eight-foot chain-link fence that surrounds the area. Carter was a 1952 graduate of McMurry University and Athletic Hall of Honor inductee in 1999 and was the primary donor for the throws facility.

**CAMPUS CENTER.** Completed in the fall of 1979, the Shirley L. and Mildred Garrison United Methodist Campus Center is a \$2 million structure located in the center of McMurry's campus. The campus center is a partially underground structure with grassy slopes rising around its walls. This structure is used for a wide variety of activities. Weekly campus worship services are held in its chapel, dances are held in its ballroom, students' free time may be spent in the Sports Grille, computers and tutoring are available in the Academic Enrichment Center, and the faculty relaxes in the faculty lounge. In 2003, the Braniff Lounge became the Windjammers Lounge honoring a McMurry student band of the 1960s. The campus center was recently renovated to include new carpet in the ballroom and new furniture and carpeting in the Windjammer's Lounge. Other facilities located here are the college bookstore, Campus Activities Board office, post office, the Religious Life office, and the office of the McMurry Student Government.

**NOEL R. and ANITA HENRY CHAPIN ART BUILDING.** Constructed in 1999-2000. The Chapin Building provides instructional space for ceramics and for student and faculty studios.

**CLASSROOM BUILDING.** The Harold Groves Cooke Liberal Arts Building houses classrooms, faculty offices, and computer labs.

**DINING HALL.** The J.E. and L.E. Mabee Dining hall was completed in the summer of 1988 at an approximate cost of \$1,100,000. It covers approximately 13,900 square feet and is located adjacent to the northwest corner of the Campus Center. Food service is prepared to serve in excess of 2,000 meals per day. The dining hall has a maximum seating capacity for 500 persons.

**EDUCATION BUILDING.** The Iris Graham Education building, a renovation of the Iris Graham Memorial Dining Hall, was completed in 1989. It provides offices for the Department of Curriculum and Instruction faculty; three general purpose classrooms; two demonstration classrooms; and audio-visual, curriculum, and computer laboratories. A grant from the

Mayer Foundation of Plainview has allowed the purchase of “state-of-the-art” equipment for training future teachers.

**FIELD HOUSE.** The R. M. Medley Field House was completed in the summer of 1982 at an approximate cost of \$400,000. Located just to the south of the J.W. Hunt Physical Education Center, and adjacent to Wilford Moore Stadium, the Field House serves as the dressing facility for football. A fully-equipped weight training facility is housed in the Field House as well as a 3600 square foot carpeted workout area.

**FURR WELCOME CENTER** The Furr Welcome Center opened in September, 2007, and serves as a welcome center for future McMurry students and guests. It houses personnel from the Office of Institutional Advancement and provides a meeting and gathering place for McMurry Alumni and friends as well as for outside groups. Its addition to the auditorium improves the accessibility and usability of Radford Memorial Auditorium. The building is adjacent to Radford with an entrance that faces southeast. Abilene architect Rick Weatherl designed the building to compliment Radford with the Welcome Center closely resembling the original sketches of the Radford Building that included two wings for additional space. The principal donors for the building were Doctors Bedford and Oneta Furr of Abilene, Texas.

**FINE ARTS CENTER.** The Amy Graves Ryan Fine Arts Center is a memorial to the late Mrs. Amy Graves Ryan given by the late Dr. Basil Ryan, her husband, who served as a trustee of the University. The Fine Arts Center houses the Departments of Art, Music, Communication, and Theatre. The Munger Sculpture Garden in the center outdoor area of the fine arts complex is a memorial to Mr. L.S. Munger. This was presented to the University by Dr. and Mrs. Edwin E. Middleton. Marsha Middleton contributed the abstract stone sculpture to the garden.

**LIBRARY.** The Jay-Rollins Library is one of the most striking buildings on the McMurry campus. With a capacity for 200,000 volumes, the Library has high-vaulted ceilings and lighting effects conducive to study and reading. Stainless steel, glass and masonry make this building a fitting memorial to Mr. and Mrs. S.M. Jay and to Mr. and Mrs. Nat G. Rollins, from whose estates it was largely financed.

**OLD MAIN BUILDING.** The Old Main Building is the former administrative building in which are located several classrooms, faculty offices, and administrative offices.

**PHYSICAL EDUCATION CENTER.** The J.W. Hunt Physical Education Center is the result of a generous anonymous gift and a \$500,000 Matching Fund Campaign and was completed at a cost of \$1.3 million. The Physical Education Center, located on the west side of the campus, features all modern health and physical education facilities. The main playing floor is used for men's and women's intercollegiate competition and for a variety of other activities when regularly scheduled programs permit. The gymnasium area, known as Kimbrell Arena, can seat over 2,100 for competitive sports events. Also included are individual offices for athletic and kinesiology staff members, Wellness Center, two classrooms, and auxiliary service areas.

**RADFORD AUDITORIUM.** Located on the northeast corner of the campus, Radford Memorial Auditorium further enhances the dignity and beauty of McMurry University. The building is a gift from Mrs. J.M. Radford, philanthropist and prominent McMurry benefactress. Standing as a beacon to Christian higher education, the tower of this building, which rises to a height of over one hundred feet, may be seen from a distance of over twenty miles. Modern Gothic in architectural style, the heart of this building is its spacious auditorium and sanctuary, which seats twelve hundred people. Admissions and Financial Aid offices are located in Radford.

**PHILLIPS FAMILY STUDENT ACTIVITIES CENTER.** The Phillips' Family Student Activities Center is attached to the J.W. Hunt Physical Education Center on the south side and extends to the Field house. The complex includes an indoor swimming pool with a handicap lift, recreation gymnasium, student lounge area, and dressing facilities. The swimming pool includes a diving pool area with 1 meter and 3 meter diving boards and 6 lanes on a NCAA 25 yard course. It is used for competition and

instruction in physical education, and recreation for students, faculty, staff, and alumni. The gymnasium includes basketball, volleyball, badminton and racquetball courts.

**SCIENCE.** The Finch-Gray Science Center provides laboratory, classroom, and office space for the Departments of Biology, Chemistry, and Physics. This building will remain as a lasting tribute to Mr. and Mrs. O.H. Finch, Sr. and the late Mrs. Rebecca Estes Gray.

**WILFORD MOORE STADIUM.** The university stadium contains a standard track and athletic field. It is used for all McMurry home football games and track meets.

## RESIDENCE HALLS

Living on campus provides many opportunities to discover and develop one's talents. In addition, students tend to become better assimilated into McMurry's culture and develop rapid friendships and support networks by living on campus. Students live together in learning and living communities where they receive support from trained resident assistants and peer leaders. The experience of living on campus is the foundation to life beyond McMurry. Due to the advantages of residing on campus, McMurry requires that all students who are single, under the age of 21, have earned less than 60 McMurry credit hours, or who do not reside with a parent or legal guardian within 30 miles of McMurry live on campus. Anyone wishing to reside off campus must get approval through application to the Residence Life office.

All students in the residence halls are required to purchase a meal plan. All residents are responsible for following the guidelines set by McMurry University concerning housing, as well as all policies and regulations listed in the Council Fire, in the housing agreement, and The Residence Life Guidebook.

There are 5 residential centers located on the McMurry campus:

- Gold Star Residence Hall - The Gold Star Memorial Residence Hall opened in 1948. This hall houses men and women and is a memorial to the Methodist men and women of the Northwest Texas and New Mexico conferences who gave their lives in World War II. The hall is arranged by suites with shared bath facilities.
- Hunt Residence Hall - James Winford Hunt Memorial Residence Hall houses only men. The rooms are arranged in suites with shared bath facilities. This residence hall was newly renovated and ready for occupancy in Fall 2005.
- Martin Residence Hall - William C. Martin Residence Hall houses only women in rooms that are arranged by suites with shared bath facilities. This residence hall was newly renovated and ready for occupancy in Fall 2005.
- President Residence Hall - President Residence Hall was the first hall on campus. President houses men only. Each room has different dimensions and shares one of two centralized bath facilities on each floor.
- Apartments - Students who have completed 30 or more hours have the option of living in the McMurry apartment community conveniently located on campus. The apartments are furnished, have complete kitchens, open living area with a separate bedroom for each resident. A common area open to all apartment residents for studying and relaxing is available with attached laundry facilities. Residents living in the apartments are not required to purchase a meal plan, but have the option if they so desire.

## ACADEMIC ENRICHMENT CENTER

The Academic Enrichment Center (AEC), located in the Jay Rollins Library, is an integral part of the academic services of McMurry University. The AEC serves the university by providing academic support and instructional resources for students, staff, and faculty in a comprehensive learning environment. Resources include a scanner, color printer, fax machine, and access to academic software programs. Services provided include

## Buildings & Facilities

professional tutoring, peer tutoring, computer tutorials, access to academic software programs, and internet access. Other services provided include academic counseling and study skills development. The primary function of the AEC is to provide vital academic support services to all McMurry students through programs designed to help underprepared students prepare, prepared students advance, and advanced students excel. Through the tools and services it provides, the AEC helps enable students from all economic and educational backgrounds to pursue academic excellence.

The Director of Academic Enrichment and Developmental Studies is assisted by four professional tutors and two professional staff. Peer tutors are also available to assist students in various subject areas. During the fall and spring semesters, the AEC is normally open during the following hours:

Monday - Thursday: and	8:00 a.m. - 5:00 p.m. 6:00 p.m. - 10:00 p.m.
Friday:	8:00 a.m. - 5:00 p.m.
Sunday:	6:00 p.m. - 10:00 p.m.

## LIBRARY FACILITIES

The Jay-Rollins Library and its Learning Commons serve the students, faculty, and staff of the University and the Abilene Community as a member of the Abilene Library Consortium. The library contains over 156,550 volumes as well as a growing collection of digital, print and non-print resources, including databases, online books, journals, and media. In addition, patrons have access to the library collections at Abilene Christian University, Hardin-Simmons University, Howard Payne University, and the Abilene Public Library through the Consortium's online catalog. Together the libraries collections total more than 2 million items. These resources can be accessed at the library's home page: <http://www.mcm.edu/newsite/web/library/>.

With our discovery tool Multi-Search, patrons can search the catalog, databases and online books & e-journals at the same time. Off-Campus access to databases is available with a McMurry network login.

The Learning Commons encompasses the Academic Enrichment Center (AEC), MOVE Tablet Computing office, the office of the Online Educational Design Support Specialist, and a Communication/ Studio. The Library's Media Center, located behind the Circulation Desk, offers additional media related services, including equipment checkout, and consultation on media integration in the classroom. In addition, there are two classrooms on the 2nd floor of the Library.

The Library has WiFi access throughout the building and a Java City coffee shop in the lobby. Three professional librarians assisted by four full time personnel, one part time staffer and student assistants are on duty 79.5 hours a week during the fall and spring semesters. The library's regular hours are:

Sunday:	3:00 p.m. - 11:00 p.m.
Monday - Thursday:	7:30 a.m. - 11:00 p.m.
Friday:	7:30 a.m. - 5:00 p.m.

The University Archives and three special collections are housed in the Library: the J.W. Hunt Library of Texana and the Southwest, the E. L. and A. W. Yeats Collection, and the Grady McWhiney Collection in Celtic, Southern and Civil War History. The library is an active participant in OCLC Inc., and is a member of the AMIGOS Bibliographic Council, the Llano Estacado Information Access Network (LEIAN), and the Texas Council of Independent College and University Libraries (TICUL).

## COMPUTER RESOURCES

Computer resources are well integrated into McMurry's curriculum. The University supplies students with the use of tablet PC computers through a program known as MOVE. The students trade in their computer for a new one after two years. Every residence hall is wired into the computer network with a port for each student providing Internet and e-mail service. All classrooms, residence halls, and most of the remaining campus also have wireless access. There are currently 6 multipurpose computer laboratories with computer hardware, software, and other learning resources. The availability and use of this technology is supported by McMurry's faculty and administration. The application of electronic databases, analytical tools, presentation software, multimedia software, and Internet based

course management systems is woven into the fabric of the educational process at McMurry. Hardware and software standards have been adopted. All departments require some utilization of PC's, and standard office productivity software is used across the disciplines. McMurry is committed to providing academic experiences that prepare all students, regardless of their majors, for entry into an increasingly sophisticated and complex technological world.

## MUSIC FACILITIES

The Department of Music has practice facilities located in both the Ryan Fine Arts Building and the Bynum Band Hall. Concert facilities include a one hundred sixty - seat recital hall and the twelve-hundred seat Radford Memorial Auditorium. A variety of pianos and practice organs for student use are available. A thirty-five bell Fritsen carillon is located in Radford Memorial Tower. Performance instruments are available in the Recital Hall and Radford Auditorium for concert and community use

## KINESIOLOGY AND WELLNESS FACILITIES

Long noted for its strong program for the preparation of physical education teachers and coaches, McMurry takes pride in its facilities for physical education, recreation, and athletics. The Hunt Center for Physical Education includes classrooms and facilities for instructional and fitness-related activities. The center houses a rehabilitation/treatment area, wet room with access to ice, and a taping room. The Wellness Center is housed on the second floor of the Hunt P.E. Center and contains a complete fitness center with weight and cardiovascular machines, free weights, and testing equipment. Although the Wellness Center is located in the Hunt P.E. Center, it is not confined to this area. The Center also offers campus-wide and community programs in the six areas of wellness: physical, spiritual, occupational, social, emotional, and intellectual.

## SCIENCE FACILITIES

### Biology

The Department of Biology laboratories are well equipped for teaching classical and modern biology. There are teaching labs dedicated to field biology, molecular biology, microbiology, and anatomical dissection, as well as general purpose labs useful for a variety of courses. Standard equipment such as waterbaths, incubators, electrophoresis setups, and microscopes are augmented by equipment for molecular biology and GPS-based field work. In addition to a vast collection of microscope slides, anatomical models, skeletons, and digital resources for students, teaching labs are equipped with computer-interfaced equipment for studying physiology and video-interfaced microscopes. Anatomy and physiology labs are supported by dissection and teaching collections of mammals, birds, and insects; plant studies are supported by a herbarium of plants of the Southwest and live specimens cultivated in the department's greenhouse. Students are encouraged to join faculty in research, and additional equipment is dedicated for that purpose. Growth chambers, a research-grade microscope, PCR thermocyclers, a Li-COR DNA sequencer, and centrifugation equipment teaching and research studies of organisms, cells, and molecules. A recent \$1.7M renovation of the field biology lab and to support the innovative approaches used in the Biomedical Science program makes these facilities the jewel of the campus.

### Chemistry and Biochemistry

The Department of Chemistry and Biochemistry laboratories are equipped to provide students with hands-on experience in general, organic, analytical, inorganic, physical, and biochemistry courses. A computer laboratory is available for student access to specialized chemistry software for teaching and research. Faculty research labs support work with students on research projects funded by a Welch Foundation departmental grant. In addition to standard equipment such as analytical balances, refractometers, polarimeters, potentiometers, and various types of spectrophotometers, major instrumentation is available to support teaching and research such as a High Performance Liquid Chromatograph (HPLC), cyclograph, electroanalytical equipment, and a research-grade microwave synthesizer. Other major instruments include a Fourier transform infrared spectrometer (FTIR), gas chromatographs, a spectrofluorometer, a research-grade UV-Vis spectrophotometer, and a Nuclear Magnetic Resonance (NMR) spectrometer.

## Physics

The Department of Physics laboratories are well equipped for teaching and undergraduate research. Recently renovated spaces allow for innovative teaching approaches with active use of modern instructional technology. Equipment includes lasers, Geiger and scintillation counters and scales, modern PASCO data collecting systems, LabVIEW programming language operated ELVIS data acquisition card, Michelson interferometers, grating and prism spectrometers, oscilloscopes, and an ample stock of meters and laboratory standards. A collection of telescopes is also available for student instruction. Additionally, the Physics Department is a member of the National Undergraduate Research Observatory and thus faculty and students have access to a 31" telescope at Lowell Observatory in Flagstaff, Arizona.

## CAMPUS LIFE

### Student Association

The Student Association is the most inclusive of the McMurry student organizations. Composed of all full-time students of the University, this organization exists primarily to promote the democratic expression and exercise of student opinion, and to represent, serve, and assist students in matters relating to student social life, activities, and elections. The leadership of the Student Association is the McMurry Student Government which is divided into executive, judicial, and legislative branches, the last of which is composed of the Senate. All officers of the Student Association are elected by the student body or appointed by the Executive Council.

### Athletics

McMurry University fields teams that participate in nineteen intercollegiate sports. Men are provided opportunities in baseball, basketball, cross country, football, golf, soccer, swimming, tennis, track and field (indoor), and track and field (outdoor). Women are provided opportunities in basketball, cross country, golf, soccer, swimming, tennis, track and field (indoor), track and field (outdoor), and volleyball. The University aims to foster physical development of students and to cultivate a spirit of equality, cooperation, and clean sportsmanship through its intercollegiate athletic programs, both intercollegiate and intramural.

### Philosophy and Purpose of Intercollegiate Athletics

The purpose of athletics at McMurry University is to provide an opportunity for students to compete in intercollegiate sports in an educationally sound, Christian environment. The athletics program is administered in such a way that athletics remains in keeping with the University's liberal arts tradition. Athletics should be a part of the total educational process and there is a broad base of opportunity for participation. The program creates a rallying point for students, faculty, and alumni while still enhancing educational values. It is understood that while striving to be competitive, institutional integrity will never be sacrificed.

There should be an equal opportunity for men and women with an emphasis on participation for the enjoyment and love of the sport.

Athletics at McMurry University exists within the educational mainstream of the University and is administered with the same controls, budgetary procedures, and program responsibility as any other academic or administrative function.

### MUSIC ORGANIZATIONS

**McMURRY MARCHING BAND:** The McMurry Marching Band consists of students from all areas of study, including music majors and non-majors. The Marching Band presents half-time shows at football games and parades during the Fall semester, and becomes the Symphonic Band in the Spring semester, during which it appears in concert at schools, churches and community events. The Marching Band meets daily and membership is open to any student with prior high school or college instrumental experience. Participation is required for all music majors and those on departmental merit scholarships.

**CHANTERS:** This group is the premiere touring choir of McMurry University. Membership is through competitive audition and offers students an opportunity to experience a challenging ensemble with a rich choral tradition. Chanters serves as ambassadors of McMurry University, and

tour each semester, performing at churches, schools and conventions. National or international travel is planned on a rotational basis opposite regional tours around Texas and contiguous states. While Chanters sing primarily a cappella music, they are also called upon to perform a wide range of musical genre including choral/orchestral works. Our goal is to educate students, and touch and change lives through our music.

**McM SOUNDS:** A small, select choral ensemble, Sounds performs a wide variety of a cappella literature which demands excellent musicianship. Typically the group presents signature selections by some of the world's leading jazz arrangers. Sounds works to develop choral blend, musical accuracy and artistic interpretation for a variety of musical styles, and often performs without a conductor. McMurry Sounds typically tours with Chanters and performs for numerous university and civic events. Students are eligible for this group if they are a current member of Chanters and are selected through a competitive audition at the beginning of the fall semester. Our goal is to build individual musicianship and artistry in the advanced singer.

**SYMPHONIC BAND:** The Symphonic Band is the entry band for the University, and is the Spring counterpart to the fall's Marching Band. This larger ensemble performs a couple of times during the semester, and often serves as the training band for music majors who are learning a secondary instrument. As a concert ensemble, Symphonic Band plays a wide range of band literature, and presents not only classic literature for band, but also

**WIND ENSEMBLE:** The Wind Ensemble is the top band at McMurry University. Well known for its remarkable presence and dynamic range, this favored group has traveled the globe on invitation to attend conferences and present unique music. This storied ensemble has had a long legacy of excellence of presentation in instrumental circles, and many notable band directors have come from their midst. Membership to the Wind Ensemble is by competitive audition, and participants are expected to tour with the ensemble each year.

### PUBLICATIONS

**THE GALLEON:** The University literary magazine, The Galleon, publishes the best essays, poetry, short stories, and other literary efforts of the greater McMurry community. Students, alumni, and faculty interested in creative writing and visual arts are invited to contribute to this annual magazine edited by students and published under the auspices of the Department of English.

**TALON:** The University yearbook, Totem, is published in the fall. It presents a record of student and campus life during the previous academic year. The Totem is published by the Office of University Relations.

**THE WAR HAWK HERALD:** The official newspaper for the greater McMurry community, Tribe Tribune, is published biweekly by students under the auspices of the Office of University Relations. Reporting on current campus events, the Tribe Tribune is devoted largely to the interests of the student body. The Tribe Tribune Editorial Advisory Board, consisting of students, faculty, and administrators, works together with student editors and writers to determine editorial policy and content. The Tribe Tribune is not published during recesses or summer sessions.

### NATIONAL HONOR SOCIETIES

**ALPHA CHI:** The James Winford Hunt chapter of Alpha Chi, a national scholarship society, was organized in 1926. Eligibility is based upon character and scholarship. Members are elected from the top ten percent of the junior and senior classes. Its purpose is to encourage sound scholarship and devotion to the truth.

**ALPHA KAPPA DELTA:** The Phi chapter of Alpha Kappa Delta, an international sociology honor society, was chartered at McMurry in 1990. The purpose of Alpha Kappa Delta is to promote an interest in the study of sociology and the research of social problems.

**ALPHA LAMBDA DELTA:** A national honor society for freshmen with a GPA of at least 3.5. McMurry's chapter was installed in 2001.

## Campus Life

**BETA BETA BETA:** The Pi Beta Chapter of Beta Beta Beta was installed in 1979. Its purposes are to promote scholarship, dissemination of scientific knowledge and biological research.

**KAPPA DELTA PI:** On May 18, 1951, the Eta Epsilon chapter of the national honor society in education, Kappa Delta Pi, was chartered at McMurry University. The purpose of Kappa Delta Pi is to encourage high professional, intellectual, and personal standards and to recognize outstanding contributions to education. As an international organization, it has among its members the outstanding educators of the world.

**KAPPA MU EPSILON:** In the spring of 1987 the Texas Iota chapter of this honorary mathematics fraternity was formed on the McMurry campus. The purpose of Kappa Mu Epsilon is to promote and encourage mathematical activity.

**KAPPA PI:** In the spring of 1969, Epsilon Theta chapter of Kappa Pi, an international honorary art fraternity, was organized on the McMurry campus. The purpose of Kappa Pi is to encourage creativity, expand the student's knowledge in the visual arts mount exhibitions and sales of art work, and provide scholarship opportunities.

**PHI ALPHA THETA:** Chartered in 1971, Phi Alpha Theta is an international honor society for history; membership is open to students who meet the academic requirements and have completed twelve hours of history. Sigma Beta chapter seeks to promote excellence in the study and writing of history and provides opportunities for students and professional historians to share ideas.

**PI KAPPA DELTA:** The Texas Gamma chapter of Pi Kappa Delta, a national forensics fraternity, was organized in 1967. This national organization was founded in 1912 to promote scholarship, intellectual and personal development, and to recognize outstanding contribution in the field of public speaking.

**PSI CHI:** The McMurry University chapter of Psi Chi was chartered in April 1999. Psi Chi is the National Honor Society in Psychology, founded in 1929 for the purpose of encouraging, stimulating, and maintaining excellence in scholarship and advancing the science of psychology. Membership is open to graduate and undergraduate men and women who are making the study of psychology one of their major interests and who meet the minimum qualifications. Psi Chi is a member of the Association of College Honor Societies (ACHS) and is an affiliate of the American Psychological Association (APA) and the American Psychological Society (APS).

**SIGMA DELTA PI:** The Lambda Epsilon Chapter at McMurry University was chartered in April, 1975. Sigma Delta Pi is a society to honor students who seek and attain excellence in the study of the Spanish language and the literature and culture of Spanish speaking peoples.

**SIGMA PI SIGMA:** The McMurry Chapter of Sigma Pi Sigma, physics honor society, was chartered in 1962. The objective of the Society is to recognize the attainment of high scholarship and potential achievement in physics. Membership is open to juniors and seniors who have attained high scholarship in physics and other subjects and who give evidence of professional merit, proficiency, or distinction. The Society is a member of the Association of College Honor Societies and is an affiliated society of the American Association for the Advancement of Science. Sigma Pi Sigma is an integral part of the Society of Physics Students operating within the Education Division of the American Institute of Physics.

**SIGMA TAU DELTA:** In 1951 the Phi Epsilon chapter of the national honorary and professional society of Sigma Tau Delta was chartered on the campus of McMurry University. Membership in the society is open to students who meet the academic standards and who are interested in the study of English and in writing and publishing.

## PROFESSIONAL ORGANIZATIONS

**AMERICAN CHEMICAL SOCIETY:** The McMurry Student Affiliate Chapter received its charter early in 1964. All students interested in chemistry as a profession are eligible for membership in this organization after satisfactory completion of the first semester of general chemistry. The purpose of the organization is to stimulate a professional interest in chemistry, to keep students abreast of recent developments in the chemical field, to provide a forum for discussion of chemical topics, to promote scholarship, and to encourage fellowship among those interested in chemistry.

**ASSOCIATION OF TEXAS PROFESSIONAL EDUCATORS:** ATPE is a professional organization that is available for all pre-service educators that attend McMurry University. The McMurry Chapter of ATPE is affiliated with the Texas ATPE. Activities include meetings, fund-raising, and trips to the state convention in Austin, Texas. Programs include guest speakers, professional development and other educational topics. ATPE is open to all education majors.

**ASSOCIATION OF INFORMATION TECHNOLOGY PROFESSIONALS:** AITP is a professional organization whose mission is to serve "members by delivering relevant technology and leadership education, research and information on current business and technology issues, and forums for networking and collaboration." (AITP Mission Statement 2008) Student membership is open to all students interested in computing and information technology. Activities of the McMurry AITP Student Chapter include regular chapter meetings, fund raisers, special programs like relevant guest speakers, student programming and technology contests, participation in service projects, and trips to regional and national conferences. The McMurry AITP Student Chapter is affiliated with the local (professional) AITP Big Country Chapter and all students have a standing invitation to their monthly meetings and activities.

**KAPPA DELTA SIGMA:** Is an organization for students who intend to pursue some form of ministry. This group meets twice a month for the following purposes: 1) to provide fellowship for those interested in ministry; 2) to study various forms of the Christian ministry; 3) to serve others on-campus and off-campus.

**KINESIOLOGY KLUB:** The McMurry Kinesiology Klub is open to all interested students. It is affiliated with the Texas Association for Health, Physical Education, Recreation, and Dance. Activities include programs with guest professionals, field trips to professional meetings and workshops, and fund-raising activities. Qualifying Kinesiology club members are inducted each spring into the national fraternity, Phi Epsilon Kappa.

**McMURRY MATHEMATICS CLUB:** The McMurry Mathematics Club was organized in the fall of 1971 by students with an interest in mathematics. The purpose of the club is to provide mathematical activities that go beyond the usual, promote interest in mathematics, and to encourage fellowship among those with an interest in mathematics.

**MODEL UNITED NATIONS CLUB:** Model United Nations at McMurry is an inter-disciplinary organization that provides students with opportunities to travel and to engage in interactive simulations focusing on thematic global issues, such as promoting religious freedom, human rights, nuclear non-proliferation, etc. Model UN at McMurry is open to all majors with an interest in understanding how issues impact countries differently, and how countries derive different responses to those issues.

**PRESS CLUB:** This group is composed of students who have completed an acceptable amount of writing or spent time working on one or more of the college publications. The Press Club is a member of the Texas Intercollegiate Press Association and sends delegates each year to the state meeting.

**PSYCHOLOGY CLUB:** The McMurry Psychology Club "TRI-PSY" was organized to promote interest in psychology, to provide psychological activities beyond the usual classroom situations, to enhance contacts between students and local mental health professionals, and to encourage fellowship among psychology students. It is open to all students with an interest in the science and practice of psychology.

**SOCIETY OF PHYSICS STUDENTS:** The McMurry Chapter of Physics Students is a charter chapter of the Society which was founded on April 22, 1968. The purpose of the Society is to promote educational activities for all students interested in physics and to encourage and assist students to develop the knowledge, competence, enthusiasm, and social responsibility that are essential to the advancement of physics. Membership is open to all students interested in physics.

**SOCIOLOGY CLUB:** The McMurry Sociology Club was organized in the fall of 1982 to promote the study of social life, to enhance the relationship between sociology students and the human services agencies of our society, and to encourage fellowship among sociology students. Membership is open to students who are majoring or minoring in sociology.

## SPECIAL INTEREST GROUPS

**FELLOWSHIP OF CHRISTIAN ATHLETES:** This local chapter of the national organization is open to all interested students. FCA is a group which has the purpose to confront athletes, coaches, and young people with the challenge and adventure of following Christ through the fellowship of the church and their chosen vocation.

**STUDENT AMBASSADOR BOARD (SAB):** The Student Ambassador Board was established in 1992. The purpose of S.A.B. is "To connect Students....Past, Present and Future". They serve as liaisons between McMurry University and prospective students, current students and the alumni association. The Ambassador's represent McMurry by serving as student hosts for all presidential functions and are often called upon to welcome special guests that are visiting on campus. Student Ambassador's help facilitate relationships and stimulate interest in McMurry University through various United Methodist Churches in the region. They are actively involved in raising endowment funds to provide leadership scholarships for students, specifically the "Betty Gilbert Scholarship". Through acts of service toward the "McMurry family" it is the hope of S.A.B. to instill a spirit of philanthropy and charitable giving among all these groups toward the University. The Student Ambassador Board plays a vital role in "Cultivating Leadership, Excellence and Virtue....Every Student, Every Day" which is the mission of McMurry.

## SERVANT LEADERSHIP

The Servant Leadership Center of the Southwest strives to help students become effective servants and leaders. Through curricular and extracurricular efforts, the Servant Leadership Center affirms that the most effective leaders are, first, motivated to serve. In addition to six academic courses in servant leadership, a minor, and a BIS field of study, the Center oversees the Resident Servant Leader Learning Community, service learning opportunities, and a variety of service events. Rather than offering a "program" as such, the Servant Leadership Center seeks to be a presence on campus that inspires and celebrates servant leadership wherever it may be found, whether these instances of servant leadership are part of a specific program or spontaneous acts that empower others to grow and serve.

## SERVICE CLUBS

**ALPHA PHI OMEGA:** Organized in 1964, the Omicron Delta Chapter of this national service fraternity was founded for the primary purpose of service to the University in all areas of civic life. New members are added each year. The prospective members serve a period of pledging during which time they are required to participate in various service projects.

## SOCIAL CLUBS

There are eleven social clubs on the McMurry campus. They are founded upon democratic principles and are dedicated to the promotion of wholesome social activities. The student social organizations and Interclub Councils are all under faculty/staff sponsorship.

### Clubs for Women:

Alpha Psi Alpha  
Delta Beta Epsilon  
Gamma Sigma  
Pi Delta Phi  
Theta Chi Lambda  
T.I.P.

### Clubs for Men:

HEI  
KIVA  
Ko Sari  
Makona  
XO

## CAMPUS ACTIVITIES BOARD (CAB)

The Campus Activities Board (CAB) is a student run organization which serves the McMurry Student Body through planning and sponsoring a variety of programs on campus. The mission is two-fold: educate and entertain the student body with engaging programs and to provide leadership training for CAB members. CAB values creativity, integrity, passion, diligence and service. Through membership and service to the university, CAB increases retention at McMurry.

## ALUMNI ASSOCIATION

The Alumni Association is a representative body of McMurry alumni whose primary focuses are to honor, preserve, and celebrate University traditions, instill a strong sense of connectedness and pride, and create a culture of stewardship for McMurry University. The Association provides editorial input for the alumni publications, the McMurry Connections and the Chieftain. In addition, the Alumni Association coordinates homecoming events including class and special emphasis reunion groups; They recognize outstanding alumni leadership through the presentation of the Distinguished Alumni Award; They holds numerous alumni and Young Alumni Club events; parents organization and family weekend; They present the Cross and Flame award annually to an individual in the Northwest Texas and New Mexico Annual Conferences in addition to one At-Large recipient from other Annual Conferences of the United Methodist Church; The Alumni Association's board of directors is comprised of twenty-one members who serves as a liaison between the alumni and McMurry University to represent alumni interests and contributions as a vital component in maintaining the success and fulfilling the core values of McMurry University

## McMURRY RELIGIOUS LIFE

Religious Life Office - Garrison Campus Center Room 107. Sharing in Methodism's concern that "knowledge and vital piety" might be creatively united, McMurry University includes in its overall mission a concern for the spiritual dimension of life. The University Chaplain serves as an advisor, mentor, and companion on the journey to provide leadership and direction with students, faculty, staff, and administrators who desire to search and build their spiritual depth and well-being. Students are encouraged to take an active part in the religious activities on campus. Opportunities are available for students to attend and lead in a variety of worship settings; participate in fellowship, study, and accountability groups; explore vocations in the Church; and grow in wisdom and maturity in their faith journey.

## COUNSELING SERVICES

Counseling Services is devoted to helping students who need assistance in coping with personal problems. These include but are not limited to depression, anxiety, issues of abuse or trauma, family of origin issues, self-esteem, relationship issues, substance abuse, eating problems, and grief. All on-campus counseling services are free and confidential to McMurry students.

## CAREER SERVICES

McMurry University Career Services provides a variety of career services that can assist students and alumni in making wise career decisions. Services provided are:

- **Career Counseling/Testing** – Help with decisions concerning majors, careers, and career-related issues. Learn about yourself and what careers/majors would be a good fit for you.
- **Workshops/Resources** – Assistance in creating resumes, job search strategies, interview skills, networking, and job fair skills.
- **Employment Services** – Online Job postings are provided for on-campus work study jobs and also for off campus part-time and full-time jobs. A placement file service is maintained for seniors and alumni. Resume and cover letter critique is available. Opportunities for on-campus recruiting and on-campus interviews are offered.
- **Special Programs** – Recruiters from across the state come to the WCTCC Career Expo, Tri-University and the Graduate and Profes-

## Privacy of Student Records

sional School Fair to recruit our students and alumni. Senior programming brings together many resources for seniors to gain information concerning graduation and life afterward. The Senior Etiquette Dinner offers an informational dining experience on proper etiquette.

## HEALTH SERVICES

The Health Services Office is open weekdays. Health services are provided by a registered nurse for assessments of illness and injuries with referrals to a physician if necessary. Information on health questions and resources are available. Most services are free of charge. A nominal fee is required for flu vaccinations due at the time of service. Allergy shots are administered free of charge. All students are required to supply a Medical History Form, proof of immunizations and health insurance. Student health insurance information is available through the Student Affairs Office and Health Services Office.

### *Bacterial Meningitis*

In accordance with Texas Senate Bill 1107, on and after January 1, 2012, all first-time students under 30 years of age, including transfer students, dual credit students attending classes on McMurry's campus, and any student who previously attended McMurry University before January 1, 2012 and is seeking to be readmitted, must present a certificate to the institution demonstrating they have been vaccinated against bacterial meningitis within the past 5 years. In addition, students must have received the vaccination at least 10 days prior to attending class. Students will not be permitted to register for classes until proof of vaccination is on file in the Health Services Office.

## THE OFFICE OF ACCESSIBILITY AND ACCOMODATIONS

The purpose of The Office of Accessibility and Accomodations is to enable students with disabilities to participate in the full range of college experiences; to promote an environment that is barrier-free, and to actively address and promote disability awareness within the campus community through programs and services designed to meet the academic and professional needs of the individuals with disabilities. Qualified students with a disability shall, by reason of such disability, not be excluded from participation in or be denied the benefits of reasonable University services, programs, or activities or be subjected to discrimination of any kind. To be eligible for services, the student with a disability must provide The Office of Accessibility and Accomodations current documentation that describes the specific disability prior to or at the beginning of the semester. The documentation must be from a licensed or certified professional in the area of the disability (i.e. psychologist, physician or educational diagnostician). Students with disabilities must contact The Office of Accessibility and Accomodations to discuss academic needs before the beginning of their first semester or as soon as they are diagnosed with a disability. Once documentation is on file, reasonable accommodations may be made. To obtain additional information or specific guidelines on particular services students should contact The Office of Accessibility and Accommodations.

## CONFERENCE AND ENRICHMENT SERVICES

McMurry University's Conference and Enrichment Services office coordinates a variety of activities on the campus with special emphasis on summer youth camps, community outreach, church activities, off campus organization meetings and conferences and workshops. These programs represent an opportunity to bring prospective students onto the McMurry University campus and to serve the Abilene community with year-round enrichment experiences.

## STUDENT CONDUCT

Consistent with the United Methodist Church philosophy and principles, McMurry University is strongly committed to the development of the student and promotion of personal integrity and self-responsibility. Students enrolling at McMurry become citizens of the community and are entitled to enjoy the privileges and assume the responsible obligations associated with this affiliation. Since the rights of all students are protected, and an atmosphere conducive to intellectual and religious development, personal growth, and community association are to be promoted, standards and guidelines on student behavior are necessary. The Student Code of Conduct is intended to outline certain responsibilities and expectations of

McMurry students and assist the students to understand their role in the academic community.

A student who enrolls at McMurry University is expected to conduct himself/herself in a manner compatible with the University's function as an educational, Methodist-affiliated institution; to adhere to University policies; to show respect for properly constituted authority; and to observe correct standards of conduct. It is the student's responsibility to be knowledgeable about all University student conduct policies. Any student who engages in conduct that is prohibited by the University is subject to judicial action whether such conduct takes place on or off the campus or whether civil or criminal penalties are also imposed for such conduct. Furthermore, a student is subject to judicial action for prohibited conduct that occurs while participating in off-campus activities sponsored by the University, or University organizations, including, but not limited to: field trips, internships, socials, training exercises, pledging, rotations or clinical assignments. Violations of the McMurry Student Code of Conduct are referred and adjudicated through the Student Affairs office under the general direction of the Dean of Student Affairs. The Student Code of Conduct is available for review in the Council Fire.

## PRIVACY OF STUDENT EDUCATION RECORDS

### Family Educational Rights and Privacy Act (FERPA) Annual Notice to Students

McMurry University annually informs students of the Family Educational Rights and Privacy Act of 1974, as amended. This Act protects the privacy of education records, establishes the right of students to inspect and review their education records, and provides guidelines for the correction of inaccurate or misleading data. Students also have the right to file complaints with the FERPA office concerning alleged failures by the institution to comply with the Act.

### Disclosure of Student Records

In general, personally identifiable information from a student's education records will not be disclosed without written consent from the student. This includes, but is not limited to, grades, academic schedule information, and transcripts. The Act does allow some exceptions in which a student's education records can or must be released which include notification in cases involving certain types of disciplinary proceedings or subpoenas. In addition, two other exceptions may be made by the university: (1) directory information, as listed below, may be released unless the student requests that it be withheld and the proper paperwork is on file in the Registrar's office; (2) student records may be released to the parents of dependent students as defined by Internal Revenue Code 1986, Section 152.

### Directory Information

McMurry University designates the following as public or Directory Information. As such, it may be disclosed by the university for any purpose at its discretion.

- Name
- Date and place of birth
- Hometown
- Local and permanent address/telephone numbers
- Directory phone
- Student's McM email address
- Major and minor fields of study
- Anticipated degree
- Dates of attendance
- Degrees and awards received
- Classification
- Anticipated graduation dates
- Student enrollment status (full-time/part-time)
- Currently enrolled or not
- Participation in officially recognized activities and sports
- Weight and height of members of athletic teams
- All previous educational agencies or institutions attended
- Photographs



Currently enrolled students may withhold disclosure of Directory Information under the Family Educational Rights and Privacy Act. Written notification to withhold Directory Information must be on file in the Registrar's office by the last day to add a course for each term. Forms are available in the Registrar's office.

### Officials of the University

Faculty, staff, and board members of the university have access to student education records in the performance of their regular duties as representatives of the university. Care is taken to authorize access to both computer and paper records only to those representatives who have a legitimate educational interest.

### MCMURRY EMAIL

Due to the confidentiality of student records, the McMurry assigned email address is the only one used to contact and communicate with students. It is the students' responsibility to check and maintain their McMurry email accounts. Students receive vital communication from administrators and faculty through their McMurry email and are held responsible for the information sent to their McMurry email accounts.

### CAMPUS CONNECT

Students are encouraged to view or print unofficial transcripts, semester grades, course schedules, and degree audits online through Campus Connect, which is located on the McMurry web site. Semester grades are not mailed except in special situations. Please notify the Registrar's office if it is necessary to receive your grades by mail. A degree audit may be requested from the Registrar's office, and can then be viewed or printed from Campus Connect within 24 hours of request. First time students may need to provide additional information to the Registrar's Office in order to obtain an accurate degree audit through Campus Connect. If you have questions or experience any trouble accessing Campus Connect, please call the Registrar's office for assistance.

### TRANSCRIPT REQUESTS AND SERVICES

A student must sign a request form in the Registrar's office or mail or fax a signed, written request to release the transcript. Requests will not be accepted by telephone or from persons other than the student without the student's written permission. Regular processing time is 2-4 business-days. No processing fee will be assessed.

## ADMISSION POLICIES AND PROCEDURES

The goal of the Office of Admission is to admit students who have the ability to succeed at McMurry. McMurry University prides itself on academic excellence based on a strong faculty and a low faculty to student ratio. Admission to the university is selective and based on the academic qualifications of the applicant without regard to sex, race, age, handicap, color, religious affiliation, or national origin. McMurry University retains the right to deny admission to any applicant. Admission requirements are subject to change.

### ADMISSION APPLICATION DEADLINES

McMurry University is on a rolling admission schedule with priority based on file completions date. The recommended deadline dates to submit application are March 1 (fall) and December 1 (spring). Contact the Admission Office to obtain the deadline for May and summer semester applications.

### RECOMMENDED ACADEMIC PREPARATION

The following high school courses are strongly recommended for admission:

- English Language Arts 4 units (not correlated language arts)
- Mathematics 4 units (algebra I & II, geometry and above)
- Science 4 units
- Social Sciences 4 units
- Foreign Languages 2 units\*

\* Students are strongly encouraged to take 2 units of a foreign language.

Those who enroll with fewer than two units in a foreign language will be required to take a minimum 8 hours in a foreign language before they can graduate from McMurry regardless of their degree program.

## STEPS FOR ADMISSION AND ENTRANCE CLASSIFICATIONS

### Freshmen Students

Freshmen students are those who have not previously attended college and who have graduated from an accredited high school, completed the GED, or home-schooled students that can prove competency through the 12th grade level. Students who are 18 years of age or older and who have not earned a high school diploma who have never attended college will be considered for admission as freshmen if they can present evidence of having scored 550 overall, or higher, with no subsection score below 500 on the General Education Development (GED) test.

### Freshman Application Review:

Students are evaluated for admission on an individual basis. Each application is evaluated based on academic merits (both high school grade point average, based on a 4.0 scale, and entrance exam scores), extra-curricular activities, and personal statement (if applicable). This holistic approach allows McMurry to evaluate students on an individual basis and look for each student's strengths. Student GPA calculation for admission is based on core coursework.

### Freshmen Application Requirements:

1. Complete the application for admission.
2. Submit \$25.00 non-refundable application fee.
3. Have a current high school transcript (complete through the junior year) or GED scores sent directly to the Office of Admission. Final transcript with class rank, and graduation date posted will be required upon graduation.
4. Submit an official ACT or SAT score report.
5. Submit the McMurry personal statement.

### Home-schooled Applicants:

1. Complete the application for admission.
2. Submit the \$25.00 non-refundable application fee.
3. Submit an official ACT or SAT score report.
4. Provide official documentation of classes taken at the high school level.
5. Submit McMurry personal statement.
6. (Optional) Submit 3 letters of recommendation from persons other than parents or peers, preferably persons with knowledge of the student's academic ability.

Note: **Home-schooled students** are encouraged to take the General Education Development (GED) test. Additionally, the placement tests administered at McMurry University are approved by the Department of Education as an "ability-to-benefit" test for financial aid purposes.

### Transfer Students:

Transfer students are those who have graduated from an accredited high school or completed the GED, and who have been or are enrolled at regionally accredited college or university.

### Transfer Coursework:

Transfer grade point average (GPA) is computed on the basis of transferable coursework only. Transferable coursework is coursework that could be used toward an undergraduate degree at McMurry. Developmental or vocational course work is not accepted for transfer credit, but is taken into consideration in admission decisions. Transferable coursework with grades of "D" or below are not accepted for transfer credit but are used in determining transfer GPA. Not more than eight semester hours of Health Fitness courses will be accepted as credit towards a bachelor's degree or used to calculate transfer GPA.

**Transfer Admission Requirements:** Students admitted as a transfer may begin enrollment at the beginning of a fall, spring, May, or summer term only. Initial enrollment in Mini II is not permitted as a new transfer

## Admission Policies

student. Entrance examination scores are not required of applicants 22 years of age or older. Students who have completed only remedial work at the college level will be evaluated as freshmen. Transfer students will be considered for admission based on the standards listed below:

Students who have not completed the above courses, who have taken fundamental (remedial) courses or who make scores on placement instruments indicating a need for developmental coursework may be required to complete university preparatory courses or denied admission.

1. Those who have completed fewer than 24 hours of non remedial college credit are evaluated based on high school grades, entrance examination scores (if under the age of 22), and subsequent college work. Specifically:
  - a) **Acceptance:** those who have earned a cumulative 2.0 college GPA and qualify for admission based on high school academic record
  - b) **Probational Admission\*:**
    1. Transfer students who have earned a cumulative 2.0 college GPA but do not qualify for admission based on high school grades and test scores OR those who have below a cumulative 2.0 college GPA but qualify for admission based on high academic record.
    2. Transfer students who qualify for admission, but have not successfully completed developmental coursework with a C or better.
  - c) **Denial:** those who have earned below a cumulative 2.0 college GPA and do not qualify for admission based on high school academic record.
2. Transfer students who have completed 24 or more hours of non-remedial college credit are evaluated based on college grades only and must have earned a 2.0 cumulative GPA.

### \*Probational admission:

Students admitted on probation must select courses with advisor approval. Minimum GPA requirements for good standing must be met at the end of the first semester. In addition, students admitted on probation may be required to take certain courses to remedy their deficiencies. (See later in the catalog under "Academic Probation and Suspension" for definition of good standing).

**Transfer students will be considered for admission only if they are eligible to return to their previous college or university.**

### Transfer Application Requirements:

1. Complete the transfer application for admission.
2. Submit the \$25.00 non-refundable application fee.
3. Submit an official and complete set of transcripts from each college or university attended. Those who have completed less than 24 hours of college credit must submit an official, final high school transcript, and entrance exam scores (if applicable).

### Transfer of Courses to McMurry University

**Final acceptance of transfer courses, course equivalency, and credits awarded towards a degree at McMurry is subject to the approval of the Registrar.** It is the student's responsibility to secure an official transcript from all previously attended institutions of higher learning. As a general rule, McMurry University will accept and award credit for college-level academic courses taken at regionally accredited institutions of higher learning. The credit must be recorded on the college or university's academic transcript. Credit will be posted only after the receipt of an official transcript mailed directly from the transferring institution to McMurry University.

McMurry University has adopted the plan for transfer of course work from two-year institutions as set forth by the Texas Higher Education Coordinating Board. The following exceptions apply:

1. Remedial and vocational course work and grades of "D" and below will not be accepted for transfer, but are considered in the admissions decision.

2. Students who have completed only remedial work at the college level will be evaluated as freshmen. Please refer to the "Freshmen Student" section for the necessary criteria.
3. Courses generally viewed as non-academic courses are not accepted for transfer credits.
4. Athletic sports participation and conditioning type courses taken in conjunction with or specifically for athletic participation are not accepted for transfer credit.
5. A student may not transfer more than 66 semester hours from a two-year college. No course taken at a two-year college can be transferred as upper division (3000 and 4000) work.
6. No course work will be accepted from an institution that is not regionally accredited.

Military service school courses are evaluated and may be accepted for credit by McMurry University according to the recommendations of the American Council of Education's Guide to the Evaluation of Educational Experiences in the Armed Services (ACE Evaluation Guide), current edition. Anyone in the military services may request an unofficial evaluation credit will be awarded upon successful completion of appropriate CLEP or subject examinations. Any credits that are to be awarded by evaluation, CLEP, or examination will not be officially recognized by McMurry University until a minimum of 12 semester hours have been successfully completed in residence at the main campus or at McMurry-Dyess Air Force Base Program.

### Transient Students

Transient students are those enrolled at another institution who wish to take course work at McMurry, and then return to the institution where they were previously enrolled. In order to enroll, a transient student must be eligible to return to the previous institution. Transient students who subsequently pursue academic credit at McMurry University must first apply for admission and be accepted as a degree-seeking student before the work taken as a transient student will be applied toward a McMurry degree.

### Transient Applicants:

1. Complete the application for admission.
2. Submit the \$25.00 non-refundable application fee.
3. Submit an official transcript from the college or university currently enrolled.
4. In order to register for a course that has prerequisites, an official transcript from the institution in which the prerequisites were completed will be required.

### Dual Credit Students

Dual credit students are high school students (junior standing) with written permission from their high school principal or counselor to enroll in course work at McMurry while enrolled in and completing high school graduation requirements. Dual credit students who subsequently decide to pursue a degree at McMurry must apply for admission and be admitted as a degree-seeking student before the dual credit work will count toward the McMurry degree plan.

### Dual Credit Applicants:

1. Complete the application for admission.
2. Submit a letter of permission to enroll for college work from either the high school principal or the high school counselor.
3. Submit a current high school transcript. A final high school transcript with official class rank will be required upon graduation.
4. Schedule to take the ACT or SAT before the semester of dual credit work. Depending on ACT/SAT sub-scores, a placement test may be required if Mathematics or English is the desired dual credit class..

### Non-degree Students

Non-degree students are those students who enroll, but do not wish to receive academic credit for work completed. Students may enroll under a "non-degree" status for only one semester. Subsequent enrollment under the "non-degree" status requires written approval by the Vice President for Academic Affairs or designee. In order for work completed as a non-degree student to be applied toward a degree, the student must apply for admission, and be admitted as a degree-seeking student.

**Non-degree Applicants:**

1. Complete the "Non-Degree Student Application" for admission available from the Office of Admission.
2. Submit the \$25.00 non-refundable application fee.
3. Submission of the "Non-Degree Student Application" acknowledges that work completed under the non-degree status does not count toward a McMurry degree until the student applies and is admitted as a degree-seeking student.

**Special Admission**

Student may be admitted under the Special Admission category when unusual or special circumstances exist, as determined by the Vice President for Enrollment Management. Special admission students who subsequently pursue academic credit at McMurry University must first apply for admission and be accepted as a degree-seeking student before the work taken as a special admission student will be applied toward a McMurry degree.

**Special admission Applicants:**

1. Complete the freshman or transfer application for admission.
2. Submit the \$25.00 non-refundable application fee.
3. Submit an official transcript or statement of good standing from the college or university that you presently attend.

**International Students**

Students who are not permanent United States citizens or who do not have immigrant status are considered international students. International students applying for admission must meet the same admission requirements as other students in the same category (freshman or transfer). Once the student has been admitted and all other paperwork supplied, a \$1,500 enrollment deposit is required before the I-20 will be issued. The \$1,500 deposit will be applied to the student's tuition in their last semester of attendance, or refunded if no balance is due.

**International applicants:**

1. Submit an international student application for admission online using the McMurry web site at [www.mcm.edu.htm](http://www.mcm.edu.htm).
2. A non-refundable application processing fee of \$50.00 is required.
3. Provide official transcripts of all academic work attempted in the United States or abroad (transcripts must be translated to English)
4. Scores from the American College Test (ACT) or the Scholastic Assessment Test (SAT) are encouraged. Students may be asked to provide these scores if necessary.
5. If native language is NOT English submit proof of:
  - Test of English as a Foreign Language (TOEFL) score. A minimum score of 213 is required on the computer based TOEFL, a minimum score of 550 is required on the paper based TOEFL, a minimum score of 79 is required for the internet based TOEFL, OR
  - The Academic Examination results of International English Language Testing System (IELTS). A minimum score of 6.5 is required. OR
  - 24 semester hours of transferrable coursework from a regionally accredited U.S. College or University to include English 1310 and English 1320 with a grade of "C" or higher.

Once admitted to McMurry, international students are eligible to receive their I-20 and apply for their F-1 visa when all required paperwork and fees are received. Students are also required to register with SEVIS (Student and Exchange Visitor Information System) and pay the \$200.00 user fee using the I-901 Form. This may be completed online at: <http://www.ice.gov/sevis/i901/index.htm>

**Health Forms**

All students must provide a completed "Report of Medical History and Consent of Medical Treatment" form, including a current immunization record at the time of registration. This record will be forwarded to the Health Office. The following immunizations, in addition to the basic childhood vaccines, are required of all students:

1. Tuberculosis (a negative skin test OR chest x-ray within past one year)
2. MMR (Measles, Mumps, Rubella) Two injections since age one

3. Hepatitis B vaccine, a .series of three injections.
4. Bacterial Meningitis - See Health Services Section

**Student Appeals Committee**

Any applicant who does not meet the admission standards and whose application for admission has been denied may appeal the decision to the Student Appeals Committee. Applicants who wish to appeal any admission decision should contact the Office of Admission within two weeks of the notification of denial. Admission granted on the basis of incorrect information or an omission of fact which, if known, could have caused ineligibility, is invalid. McMurry University reserves the right to deny admission to any applicant. All admission appeals must be completed before an admission decision will be reached.

**REQUIREMENTS FOR READMISSION**

Readmission is accomplished through the Registrar's office. A McMurry student who has discontinued enrollment for one long semester or more must apply for readmission to the university. In order to be approved for readmission, the student must provide an official transcript from all schools attended since leaving McMurry and be clear in all campus offices. The readmission form and all official transcripts, along with a \$20.00 fee, must be submitted to the Registrar's office no later than 5 business days prior to the beginning of the semester in which the student plans to return. Processing may take longer, depending on how quickly the official transcripts are received. Approval may be granted based on unofficial transcripts, only if the student is still enrolled in courses at another institution.

**Readmission after a suspension:**

Returning to McMurry after a suspension is subject to the approval of the Student Appeals Committee. A student on suspension must follow the readmission procedure as stated above, as well as complete the appeals process required by the Student Appeals Committee.

**ACADEMIC RESTART**

The McMurry Academic Restart program is available for students who wish to eliminate from their records all previous unsatisfactory grades for academic work. Undergraduate students may, at the time of admission or readmission to the university, petition to the Registrar for approval for Academic Restart if they have not been enrolled in any college or university for a period of at least five calendar years immediately preceding their intended enrollment at McMurry. The following conditions will apply:

1. The student will forfeit the use of all college or university credits earned prior to the date Academic Restart was declared (the date of admission or readmission). This includes credits earned through any advanced placement program. Courses taken prior to the Academic Restart date may not be used to fulfill requirements of any kind.
2. No courses taken prior to the declaration of Academic Restart will be used in the calculation of the student's grade point average.
3. The student's record will be inscribed with the notation "Academic Restart Declared" (date).
4. The student will not be eligible for academic honors conferred by the University except as justified by the entire academic record, including courses taken prior to the declaration of Academic Restart.
5. A student who declares Academic Restart will be placed on academic probation and required to earn a C (2.0) average during his first semester of enrollment. Students failing to meet this requirement will be suspended from the University. Those meeting the requirement will be removed from probation.
6. A student who declares Academic Restart will be considered an entering freshman and will be subject to all McMurry policies regarding placement in courses.
7. Declaration of Academic Restart has no effect on accumulated financial aid history. Students accumulated semester and award limits include all semesters of enrollment, both before and after the declaration.
8. The student will be required to provide official transcripts from all previous institutions attended.

## ACADEMIC ADVISING

McMurry University considers Academic Advising an essential element of the educational process and is committed to a program which strives to integrate students' personal and academic goals, address their cognitive and social development, and establish the relationship between education and life experiences.

Each student at McMurry is assigned an academic advisor whose role is to help the student clarify individual goals and develop a suitable educational plan, select an appropriate course sequence, and review the progress toward established educational goals. While many students may later choose to self advise, they are first required to meet with their advisor for registration and schedule changes and are highly encouraged to consult with their advisor anytime assistance is needed. While the student bears the ultimate responsibility for selecting courses, meeting course prerequisites, and adhering to policies and procedures, the advisor serves as a valuable resource person who can help facilitate the student's adjustment to and development within the academic environment. Students are assigned an advisor in the department of their declared major. During the first year, freshmen students are assigned an advisor who is especially equipped to work with new college students. After the first year, an advisor in the major department is selected.

The Office of Academic Advising, which is a component of the Registrar's office, assigns advisors and makes changes in a student's major, minor, or teaching field. In addition, the professional staff of this office advises and registers all new transfer students upon their initial enrollment to McMurry.

## ACADEMIC PLACEMENT POLICY

All first-time college students or transfers who have not completed English 1310 and/or Math 1311 (or equivalent) may be required to test for placement in math, reading and composition. Students whose placement results indicate a need for pre-college development in one or more of these areas must register for and continually enroll in the corresponding DEVS (Developmental Studies) course(s) until they pass with a grade of "C-" or better. Students must meet this requirement before enrolling in the corresponding academic level classes. Academic advisors will assist students in registering for the appropriate level of classes. Declining required testing constitutes acceptance of placement in DEVS classes. Some students may be exempt from one or more placement test(s) if ACT/SAT subscores or THEA scores exceed the established cutoff levels listed below.

<b>SAT Math:</b>	<i>530 or higher</i>
<b>SAT Critical Reading:</b>	<i>490 or higher</i>
<b>SAT Writing:</b>	<i>490 or higher</i>
<b>ACT English:</b>	<i>19 or higher</i>
<b>ACT Math:</b>	<i>23 or higher</i>
<b>ACT Reading:</b>	<i>19 or higher</i>

<b>THEA Reading:</b>	<i>230 or higher</i>
<b>THEA Writing:</b>	<i>220 or higher</i>
<b>THEA Math:</b>	<i>270 or higher</i>

Note: Credit for DEVS courses will not count toward any requirements other than placement and the meeting of pre-requisite skills for collegiate-level courses. Please see the Developmental Studies section of this catalog for further information. Home-schooled students – The placement tests administered at McMurry University are approved by the Department of Education as an "ability-to-benefit" test.

## CREDIT BY EXAMINATION

McMurry University may award university credit on the basis of two College Board programs and on local departmental exams where no College Board tests are available. All credit by examination is subject to the following general limitations:

1. A maximum of forty-five semester hours of credit earned by examination at this institution or elsewhere may be applied toward the bachelor's degree.

2. Credit by examination will not be recorded until the student has enrolled for classes, and an official transcript is on file in the registrar's office.
3. Credit by examination will not reduce the regular residence requirements.
4. Letter grades are not given on credits by examination.
5. Credits earned by examination are not included in the computation of the grade point average.
6. Transfer students must satisfy all McMurry requirements concerning credit by examination.

### ADVANCED PLACEMENT EXAMINATIONS (AP)

The College Board Advanced Placement Examinations are offered once a year, usually in May, to those high school students who have received college-level training in secondary schools. These examinations are not administered by colleges. Application to take these examinations must be made through high school counselors. Information concerning this examination program should be directed to the Advanced Placement Program of the College Board, Box 977-GPS-A, Princeton, N.J. 08541. Beginning freshmen who present acceptable scores on the appropriate Advanced Placement Examinations will, on request, receive placement and credit for comparable courses at McMurry University. See table page 21.

### COLLEGE LEVEL EXAMINATIONS PROGRAM (CLEP)

The College Board College Level Examination Program offers two types of examinations for credit: the General Examination and the Subject Examination. McMurry University does not give credit for General Examinations. The Office of the Registrar certifies credit earned on a CLEP Subject Examination on scores at or above that recommended by the American Council on Education. See Table Page 22.

### DEPARTMENTAL EXAMINATIONS

McMurry students who wish advanced standing and credit in areas not covered by the two College Board programs described above may take special examinations upon approval of the department in which the course is offered. Applications to take departmental examinations must also be approved by the Vice President for Academic Affairs and the Registrar. The charge for departmental examinations and credit awarded will be \$20.00 per semester credit hour.

### INTERNATIONAL BACCALAUREATE (IB)

McMurry University recognizes the value of the International Baccalaureate program and will grant a minimum of 24 credit hours for any new student receiving the IB diploma with a score of at least a 4 on all subjects. Credit may also be granted to students who did not complete the diploma program but earned appropriate scores and levels on the IB exams. IB transcripts will be evaluated on an individual basis and credit awarded by the Registrar. An official IB transcript must be mailed from the International Baccalaureate Organization to the Registrar's office at McMurry.

## ADVANCED PLACEMENT EXAMINATIONS

DEPARTMENT	EXAM	SCORE	CREDIT AWARDED
ART	Studio Art 2D-Design	3/4/5	ART 2304 or ART 2323
	Studio Art 3D-Design	3/4/5	ART 2321
	History of Art	3	ART 1300
	History of Art	4	ART 1300 or ART 2301
	History of Art	5	ART 2301 and ART 2302
BIOLOGY	Biology	3/4/5	BIOL 1401
CHEMISTRY	Chemistry	3	CHEM 1410
	Chemistry	4/5	CHEM 1410,1420
COMPUTER SCIENCE	Computer Science A	3/4/5	CSC 1325
ECONOMICS	Macro/Microeconomics	3/4/5	ECON 2310, 2320
ENGLISH	Language & Composition	4/5	ENG 1310 (no writing sample)
	Literature & Composition	4/5	ENG 1320 (no writing sample)
FRENCH	Language, Literature	3	FREN 1410, 1420
	Language, Literature	4/5	FREN 1410, 1420, 2310, 2320
GERMAN	German Language	3	GERM 1410, 1420
	German Language	4/5	GERM 1410, 1420, 2310, 2320
GEOSCIENCE	Environmental Science	3/4/5	GEOS 1405
GEOGRAPHY	Human Geography	3/4/5	GEOG 3310
GOVERNMENT	American Government	3/4/5	PSC 2310
HISTORY	American History	3	HIST 2310
	American History	4/5	HIST 2310, 2320
	European History	3	HIST 1310
	European History	4/5	HIST 1310, 1320
	World History	3	HIST 1310
	World History	4/5	HIST 1310, 1320
MATHEMATICS	Calculus AB	3/4/5	MATH 2421
	Calculus BC	3/4/5	MATH 2421, 2322
MUSIC	Music Theory	3/4/5	MTH 1330, MTH1130
PHYSICS	Physics B	3/4/5	PHYS 1400
	Physics C - Mechanics	3	PHYS 1400
	Physics C - Mechanics	4/5	PHYS 1410
	Physics C - Electricity	3	PHYS 1400
	Physics C - Electricity	4/5	PHYS 1420
PSYCHOLOGY	Psychology	3/4/5	PSYC 1340
SPANISH	Language & Literature	3	SPAN 1410, 1420
	Language & Literature	4/5	SPAN 1410, 1420, 2310, 2320
STATISTICS	Statistics	3	MATH 3351

## CLEP SUBJECT EXAMINATIONS

DEPARTMENT	EXAMINATION	EQUIVALENT COURSE	SCORE	CREDIT AWARDED
<b>BIOLOGY</b>	Biology	BIOL 1401 Principles of Biology	50	4
<b>BUSINESS</b>	Financial Accounting	ACCT 2310 Financial Accounting	50	3
	Business Law, Introductory	BA 4370 Business Law I	50	3
	Info Syst. & Comp. Appl.	CIS 3380 Mgmt Information Systems	50	3
	Macroeconomics, Principles of	ECON 2320 Macroeconomics	50	3
	Microeconomics, Principles of	ECON 2310 Microeconomics	50	3
	Principles of Management	MGMT 3310 Principles of Management	50	3
	Principles of Marketing	MKTG 3370 Principles of Marketing	50	3
<b>COMPUTER SCIENCE</b>	Information Systems and Computer Applications	CIS 3380 Mgmt Information Systems	50	3
<b>CHEMISTRY</b>	Chemistry	CHEM 1400 Chemistry in Society	50	4
<b>ENGLISH</b>	American Literature	ENG 2320 Masterpieces of American Literature	50	3
	Analyzing & Interpreting Lit.	ENG 1320 Composition and Literature	50	3 <sup>1</sup>
	English Literature	ENG 2310 Masterpieces of British Literature	50	3
	College Composition Modular	ENG 1310 Composition and Rhetoric	50	3 <sup>1</sup>
<b>FRENCH</b>	French Language	Elem French/Intermediate French	50	4-14 <sup>2</sup>
<b>GERMAN</b>	German Language	Elem German/Intermediate German	50	4-14 <sup>2</sup>
<b>HISTORY</b>	History of US I	HIST 2310 United States to 1877	50	3
	History of US II	HIST 2320 United States to 1877	50	3
	Western Civilization I	HIST 1310 World Civilization to 1648	50	3
	Western Civilization II	HIST 1320 World Civilization Since 1648	50	3
<b>MATHEMATICS</b>	Calculus	MATH 2421 Calculus I	50	4
	College Algebra	MATH 1311 Algebra	50	3
	Pre-Calculus	MATH 1320	50	3
<b>NATURAL SCIENCE</b>	Natural Sciences	GEOS 1405 Environmental Geology	50	4
<b>POLITICAL SCIENCE</b>	American Government	P SC 2310 American Nat'l Govt.	50	3
<b>PSYCHOLOGY</b>	Introductory Psychology	PSYC 1340 Introduction to Psychology	50	3
	Human Growth & Development	PSYC 2360 Developmental Psychology	50	3
<b>SPANISH</b>	Spanish Language	Elem Spanish/Intermediate Spanish	50	8-14 <sup>2</sup>
<b>SOCIOLOGY</b>	Introductory Sociology	SOC 2300 Introductory Sociology	50	3

1. A passing score on the CLEP gives you the opportunity to write a departmental essay. (For McMurry students, the essay will be sent to the English Department on Campus and graded, for all other students the essay will be sent to CLEP for grading). Credit will be given only if the writing sample meets department standards.
2. 8 hours of credit for elementary language will be awarded for CLEP scores between 50 and 62. For CLEP scores 63 and above credit for one year of intermediate language will be awarded.

## FINANCIAL ASSISTANCE

McMurry does not admit students on the basis of their ability to pay. Rather, it searches for the most qualified and accomplished students it can find. After admission, the University Financial Aid Office works with students and parents to make a McMurry education possible. This assistance comes from a variety of sources, including federal, state, private, and institutional (provided by McMurry University). General regulations for participation in any of these forms of financial assistance are as follows:

1. Students must be enrolled half time to be eligible to process loans. Half-time enrollment means a minimum course load of 6 credit hours per semester. In some instances a student may qualify for a Pell Grant with less than half-time enrollment.
2. Institutional scholarships require full-time enrollment (unless specified) of a minimum of 12 credit hours and is available only for the fall and spring semesters. Student teaching or students who do not have 12 credit hours remaining to complete their degree in their final semester will have their institutional scholarships pro-rated.
3. At least a 2.0 grade point average is required for most scholarships.
4. A student may receive only one tuition or academic institutional scholarship. If a student qualifies for two, he/she may receive the scholarship that has the larger dollar value.
5. To receive financial aid, students must meet the minimum requirements for continued enrollment as listed in the catalog.
6. All awards are made only upon proper application each academic year. If there is similar financial need and if funds are available, students may expect financial assistance to be renewed upon application, if they remain in good academic and personal standing throughout their four years at McMurry and complete the required financial aid applications by March 15 each year.
7. Students may not receive institutional scholarships that are in excess of the amount charged for their tuition. If a student receives scholarship funds that cover full or partial tuition, the Institutional or state aid may be reduced or not awarded.
8. Institutional scholarships may not be used for intercollegiate classes with the exception for students enrolled with the Patty Hanks Shelton School of Nursing.
9. Students receiving scholarships must meet the stated minimum requirements for clear admission both in class rank and test scores.
10. All aid is awarded on a funds available basis. To apply for financial aid, students and their parents should submit a Free Application for Federal Student Aid (FAFSA) to the Federal Student Aid Program by March 15th. The FAFSA may be completed on line at [www.fafsa.ed.gov](http://www.fafsa.ed.gov).
11. A student is not eligible for financial aid after 12 full-time semesters.
12. Institutional Funds that are restricted to tuition only will be based on the percentage of tuition refunded. For example, if tuition refund is 75%, the student may keep 25% of the scholarship. Scholarships not restricted to tuition will be based on the percentage of the semester completed up to the 50% point of the semester. After the 50% point, the student may retain all of the scholarship.
13. Students receiving McMurry institutional scholarships, awards or grants may only use these funds for tuition costs resulting from courses taken at McMurry. Exception to this policy are students enrolled from McMurry in the Patty Hanks Shelton School of Nursing. Students enrolled at Hardin-Simmons or Abilene Christian University under our Intercollegiate Enrollment program assume the total cost of tuition charges at that respective university, with institutional financial aid prorated for courses taken at McMurry if student falls below full-time.

### FEDERAL GRANTS

McMurry University participates in the Federal Grant Programs—The Federal Pell Grant is an entitlement program for students who show financial need. To apply for these grants the student must file the FAFSA.

### STATE GRANTS

*The Texas Tuition Equalization Grant (TEG)* is a grant provided by the State of Texas to residents of Texas who show need and who are attending an approved independent college in Texas. This grant is to help equalize the tuition difference between state-supported schools and the independent colleges and universities of Texas. Students must maintain

a 2.5 GPA and complete 24 credit hours per year, and 75% completion of attempted hours for the year, to continue to receive the TEG. To apply for this grant, complete the FAFSA.

### WORK ASSISTANCE

On-campus employment is provided by two sources. Texas College Work Study and the Federal College Work Study Program provide employment for students who show financial need in meeting expenses. To apply for need-based employment, students must complete the FAFSA.

### LOAN ASSISTANCE (to be repaid)

McMurry participates in the Carl D. Perkins Loan Assistance Program (Perkins loan), the William D. Ford Federal Direct Loan Program, and College Access loan (CAL). Students and parents wishing to participate in these loan programs must process a FAFSA to support eligibility.

### MCMURRY UNIVERSITY ACADEMIC SCHOLARSHIP PROGRAMS

*McMurry Honors Scholarship*- Two full tuition scholarships are available to entering first-time freshmen who are either in the top 5% of their high school graduating class or have scored a minimum of 27 on the ACT or 1220 on the SAT (requires honors program application completed by February 1<sup>st</sup>). A separate application and personal interview are required. A faculty committee selects the recipients. The scholarship is renewable for 3 years with a minimum 3.5 cumulative GPA and a 3.25 GPA in Honors classes with McMurry. Contact the Head of the Honors Program for information. This scholarship can not be received concurrently with any other McMurry University Academic or institutional Scholarship. (Patty Hanks School of Nursing students are not eligible); (cannot be used for intercollegiate classes).

*Presidential Scholarship*-First-time freshmen, with a 3.8 high school GPA who score 26 on the ACT or 1200 on the SAT will receive a scholarship for \$11,500. This scholarship is renewable for 3 years with a 2.75 cumulative GPA with McMurry. Students receiving this scholarship may not receive any other institutional scholarship in excess of tuition. Cannot be used for intercollegiate classes.

*University Scholarship*- First-time freshmen, with a 3.6 high school GPA who score 23 on the ACT or 1100 on the SAT will receive a scholarship for \$10,500. This scholarship is renewable for 3 years with a 2.0 cumulative GPA with McMurry. Students receiving this scholarship may not receive any other institutional scholarship in excess of tuition. Cannot be used for intercollegiate classes. Cannot be combined with Athletic Scholarship.

*Dean's Scholarship*-First-time freshmen, with a 3.2 high school GPA that score 21 on the ACT or 1000 on the SAT will receive a scholarship for \$9,500. This scholarship is renewable for 3 years with a 2.0 cumulative GPA with McMurry. Students receiving this scholarship may not receive any other institutional scholarship in excess of tuition. Cannot be used for intercollegiate classes. Cannot be combined with Athletic Scholarship.

*McMurry Scholarship*-First-time freshmen, with a 3.00 high school GPA who score 19 ACT or 900 SAT will receive a \$8,500 scholarship. This scholarship is renewable for 3 years with a 2.0 cumulative GPA with McMurry. Students receiving this scholarship may not receive any other Institutional scholarship in excess of tuition. Cannot be used for intercollegiate classes. Cannot be combined with Athletic Scholarship.

*Academic Incentive Award* - First-time freshmen admitted into McMurry with demonstrated leadership, community service or involvement. Scholarship up to \$6,000 per year, and renewable for 3 years with a 2.0 cumulative GPA with McMurry. Students receiving this scholarship may not receive any other Institutional scholarship in excess of tuition. Cannot be used for intercollegiate classes. Cannot be combined with Athletic Scholarship.

*Phi Theta Kappa*- A scholarship amount up to \$8,500 per year is offered to incoming transfer students with a 3.7 GPA and who are members of this organization. The number of semesters a student may receive this scholarship is limited based on the number of full-time semesters previously

## Financial Assistance

attempted or total number of transfer hours. Must maintain a 3.0 GPA with McMurry to continue to receive. Cannot be used for intercollegiate classes. Cannot be combined with Athletic Scholarship.

**McMurry University Transfer Scholarships-** The number of semesters a student may receive these scholarships is limited based on the number of full-time semesters previously attempted or total number of transfer hours. Transfer Scholarships cannot be combined with Athletic Scholarship.

1. Transfer I of up to \$3,750 per semester is awarded to entering transfer students with a 3.6 GPA and 24 transfer hours. Need 2.5 GPA with McMurry to continue. Cannot be used for intercollegiate classes.
2. Transfer II of up to \$3,250 per semester is awarded to entering transfer students with a 3.0 GPA and 24 transfer hours. Need 2.0 GPA with McMurry to continue. Cannot be used for intercollegiate classes.
3. Transfer III of up to \$2,750 per semester is awarded to entering transfer students with a 2.5 GPA and 24 transfer hours. Need 2.0 GPA with McMurry to continue. Cannot be used for intercollegiate classes.
4. Transfer Award of up to \$2,250 per semester is awarded to entering transfer students with a 2.25 GPA and 24 transfer hours. Need 2.0 GPA with McMurry to continue. Cannot be used for intercollegiate classes.

**McMurry University Abilene Military Dependent Scholarship-** Any incoming student who is a dependent of full-time active-duty military personnel will receive a 30% discount in the cost of tuition. This scholarship cannot be received concurrently with McMurry Honors, Presidential, University Scholar, McMurry Grant, Faculty, McMurry Award, Dean's Scholarship, McMurry Scholarship, Academic Incentive Award, or any transfer scholarship. This scholarship may be full-time or part-time enrollment. A 2.0 cumulative GPA with McMurry is required to continue the scholarship. Cannot be used for intercollegiate classes, or School of Nursing. Cannot be combined with Athletic Scholarship.

**Special Military Rate For Active Duty Members Using Tuition Assistance (TA).** In McMurry's continued support and partnership with the Air Force, McMurry University is proud to offer a Special Military Rate for Active Duty Members Using Tuition Assistance (TA). Those who are eligible to receive TA will be charged the maximum amount allowed, currently \$250/credit hour, for McMurry classes. Out of pocket expenses will be for books and supplies. Those under partial TA are subject to the limitation of one class in addition to the TA funded courses at the special rate and will be required to pay according to the balance after TA. Special tuition rate does not apply for classes at the Patthy Hanks School of Nursing or any Intercollegiate classes.

**International Scholarship-** Amount of scholarship varies. This scholarship can not be received concurrently with any other McMurry University academic scholarship. A student must remain in good standing to continue to receive this scholarship. This Scholarship cannot be used for intercollegiate classes or School of Nursing.

**Lydia Patterson Scholarship-** one award to a first-time freshman who is a graduate of the Lydia Patterson Institute in El Paso with a 2.75 high school GPA that scores 20 on the ACT or 950 on the SAT who has not yet received a Bachelor's degree will receive a scholarship to cover full tuition. This scholarship cannot be received concurrently with any other McMurry University academic scholarship. A 2.0 Cumulative GPA is required to continue. Cannot be used for intercollegiate classes, or through the School of Nursing. Cannot be combined with Athletic Scholarship.

**United Methodist Minister's Dependent Scholarship-** \$1,500/year. Confirmation of parent being an Active Ordained United Methodist Minister. A 2.0 cumulative GPA is required to continue. Only 3 awards available. Cannot be used for intercollegiate classes, or through the School of Nursing. Cannot be combined with Athletic Scholarship.

**Methodist Grant-** Any student who is a documented member of the United Methodist Church and who shows financial need. Subject to availability of funds and completion on FAFSA. Applications available through the Financial Aid Office. Cannot be used for intercollegiate classes, or through the School of Nursing. Cannot be combined with Athletic Scholarship.

**Departmental Honors Scholarships-** Academic departments designate these scholarships to outstanding sophomore, junior and senior students.

McMurry reserves the right to make changes subject to availability of awards. Scholarships are available to undergraduates only.

## METHODIST SCHOLARSHIPS

United Methodist Scholarships are awarded to McMurry students through the United Methodist Scholarship Program. Students who have been active members of the United Methodist Church for at least one year may apply. Applications are available from the Office of Loans and Scholarships, General Board of Higher Education and Ministry, The United Methodist Church, PO Box 871, Nashville, TN 37202-0871, or [www.gbhem.org](http://www.gbhem.org).

United Methodist Minority Scholarships are available from the Northwest Texas Conference of the United Methodist Church. Applicants should be members of a minority group and members of a United Methodist Church in the Northwest Texas or Rio Grande Annual Conference. Applications are available from the Northwest Texas Conference Office, PO Box 298, Lubbock, TX 79408.

## MCMURRY UNIVERSITY ACTIVITY SCHOLARSHIPS

**Art-Scholarships** are available to students who show promise in art talent through submission of a portfolio to the Art Department Faculty. Contact the Chairman of the Art Department for information. A 2.0 cumulative GPA is required to continue. Cannot be used for intercollegiate classes.

**Band-** Scholarships are provided to students who are members of the McMurry University Band through competitive auditions with the Music Department Faculty. Apply to the Director of Bands for audition information. A 2.0 cumulative GPA is required to continue. Cannot be used for intercollegiate classes.

**Choir-Scholarships** are provided to students who are members of one of the recognized choral groups at McMurry University through competitive audition with the Music Department Faculty. Apply to the Director of Choral Activities for audition information. A 2.0 cumulative GPA is required to continue. Cannot be used for intercollegiate classes.

**Theatre-Assistantships** are provided to students who participate in McMurry University theatre activities through competitive audition with the Theatre Department Faculty. Contact the Dean of Arts and Letters for audition information. A 2.0 cumulative GPA is required to continue. Cannot be used for intercollegiate classes.

The Financial Aid Office reserves the right to replace institutional grants and scholarships with other gift aid sources in the same amounts, in order to maximize limited resources. Please note that the total amount of gift aid awarded will not be reduced.

## Financial Aid Statement of Satisfactory Progress

Student may be placed on financial aid probation or financial aid suspension if he/she fails to maintain satisfactory progress. The student will be informed by letter of the reason(s) for the status and the conditions that must be met for removal from financial aid probation/suspension.

## Institutional Policy

The Financial Aid Office evaluates student's satisfactory progress at the end of the spring semester once grades are released. Students are



evaluated based on a quantitative basis (hours completed) and a qualitative basis (cumulative grade point average, GPA) at the end of the spring semester.

**Academic Standard**

Students must meet the academic standard for continuing enrollment as published in the University catalog under Academic Probation and Suspension, including continuation based on appeal. **A student placed on Academic Suspension is automatically placed on Financial Aid Suspension.**

**Satisfactory Academic Progress Policy**

See financial aid website for additional requirements.  
[http://www.mcm.edu/newsite/web/financial\\_aid/progress.htm](http://www.mcm.edu/newsite/web/financial_aid/progress.htm)

**REINSTATEMENT OF TITLE IV FINANCIAL AID ELIGIBILITY**

Once a student is suspended, Title IV Financial Aid Eligibility may be reinstated in one of two ways.

1. Meeting minimum credit hour requirements as outlined in the satisfactory academic progress policy time frame table and academic standards as outlined in the University catalog.
2. The approval of an appeal submitted by the student to the Director of Financial Aid and reviewed by the Student Appeal Committee. Appeals should include explanation and documentation of any unusual circumstances contributing to the student's non-compliance to the satisfactory academic progress policy. Contact the Financial Aid Office for appeal guidelines, and deadline to submit.

**CONSEQUENCES OF SUSPENSION**

Students who are suspended, lose eligibility for financial aid for the entire academic year and will be considered for reinstatement of financial aid only when they have met all requirements of the satisfactory academic progress policy.

**VOCATIONAL REHABILITATION**

The Texas Rehabilitation Commission offers assistance for tuition and non-refundable fees to students who have certain disabling conditions provided their vocational objectives have been approved by a TRC Counselor. Examples of such conditions are orthopedic deformities, emotional disorders, diabetes, epilepsy, heart conditions, etc. Other services are also available to assist the handicapped student to become employable. Application for such service should be made at: Texas Rehabilitation Commission, Abilene District Office, 3104 South Clack, Abilene, TX 79606.

**SCHEDULE OF CHARGES FOR THE 2012-2013 ACADEMIC YEAR**

In considering the costs of attending college, total costs should be studied. An illustration of the costs for a student living on campus is as follows:

Direct costs paid to McMurry University:	Semester	Annual
Block Tuition (12 hours or more)	11,652.50	23,305.00

Average room and board (Freshmen) (20 meals per week)	3,736.65	7,473.30
Average books and supplies	600.00	1,200.00
<b>Total Direct Costs</b>	<b>15,989.15</b>	<b>31,978.30</b>

**Indirect living costs for student:**

Estimated transportation expense	547.00	1,094.00
Estimated personal expenses	984.00	1,968.00
<b>Total Costs:</b>	<b>17,520.15</b>	<b>35,040.30</b>

**Tuition**

Block Tuition Rate (Fall or Spring) (Block Rate 12 or more hours)	11,652.50
Hourly Tuition Rate (1-11 hours)	728.00

**Nursing Program Charges**

Block Tuition (Will be assessed on all full time students)	11,652.50
Part Time enrollment per semester hours	728.00

**Adjustment in tuition will apply if PHSSN tuition exceeds McMurry's rates.** Fees assessed by PHSSN each semester and charged to the student account which includes but not limited to the following:

Laboratory Fee	Malpractice Insurance	Hesi Test
Clinical Kit	Nursing Exam	Examsoft
Parking Fee	Drug Testing Fee	Nclex Review Preceptor

**Other Fees**

Application for Admission	25.00
Application for Re-Admission	20.00
Audit Courses (Non-Credit) (Per class)	50.00
Departmental Exams (Per Semester Hour)	20.00
Housing Application Fee	50.00
Intercollegiate Fee	25.00
Music Fee	Per Course: 1 Hour 130.00 2 Hour 180.00
Orientation Fee (First-time full-time student)	175.00
May Term 2013 Tuition (Per Hour)	330.00
May Term 2013 Room	250.00
CLEP exam fee is subject to College Board Rate	
CLEP administration fee	15.00
CLEP essay fee on English	10.00
Graduate Program App Fee	35.00

**Special Programs**

Students from area high schools enrolling in dual credit courses, and resident-only students from area junior colleges residing on-campus, are considered registered in Special Programs at McMurry University. Registration in these programs generate costs that are due and payable in full by the first day of the semester of enrollment. These costs will be available before enrollment in either program. Payment may be taken or sent to the Student Financial Services at McMurry, or payment by credit card or bank draft may be made through our online service. Upon enrollment, the student under 18 years of age is considered an adult under FERPA guidelines and collection steps and charging policies will be the same as the University's traditional student. Senior citizen programs begin at age 65 and allows the attendance, with no participation, of the class at no tuition cost or academic credit. After professor approval, registration is still required and any class fee will apply.

Intercollegiate enrollment is possible through Hardin-Simmons and Abilene Christian Universities when a class is unavailable at McMurry University in a particular major. When this occurs, the student will be charged with any additional costs incurred, including a higher rate of tuition and any fees, at the other university. The block tuition rate at McMurry does not always cover intercollegiate and nursing enrollment costs.

**Room Per Semester**

Gold Star Resident Hall (Double Occupancy Fall, & Spring Semester)	1,568.00
President Residence Hall (Double Occupancy Fall & Spring Semester)	1,480.00
Private Room (when available, additional \$325)	
Martin & Hunt Residence Halls (Fall or Spring Semester)	
Double Occupancy	1,818.00
Triple Occupancy (Hunt only)	1,704.00
Semi-private Room	2,106.00
Summer School 2013 per term	350.00
Apartment Rent per Month:	
2 Bedroom	425.00
3 Bedroom	370.00
4 Bedroom	330.00

Apartment contracts are binding from June 1 to May 31 and are charged out twice during the year, 7 months in fall, and 5 months in spring.  
 Fall = June through December  
 Spring = January through May

## Financial Assistance

### Board: Semester Charge (plus applicable state & local taxes) Students residing in a residence hall are required to choose one of the following three meal plans.

20 meals per week:  
\$1,717.00 + \$60 munch money + 141.65 tax 1,918.65

15 meals per week:  
\$1,674.00 + \$100 munch money + 138.11 tax 1,912.11

12 meals per week:  
\$1,621.00 + \$150.00 munch money + 133.73 tax 1,904.73

### Students living off campus or in McMurry apartments may choose any plan, including the following.

5 meals per week w \$150 munch money + tax 777.85  
40 meals / semester with \$125 munch money + tax 392.38  
Munch money minimum /increments 50.00

### Room Deposit 250.00

The \$250.00 deposit is required at the time application is made to live in the McMurry residence halls. One hundred dollars of this deposit is refundable when the student moves out if he/she checks out properly with the room left in good condition and requests the refund in writing according to the terms of their lease. Apartment dwellers abide by the terms of their yearly contracts. Fifty dollars of this deposit is a non-refundable housing application fee. The remaining \$100 is an advance tuition deposit and will be applied against tuition charges after the census date of the semester. Those living off-campus (commuters) will pay an advanced tuition deposit of \$150.00. **Residence hall rooms are rented for the year. No refunds are made for withdrawal within a semester.**

## PAYMENT OF ACCOUNT

- When a student completes the registration process, the total amount of tuition, room and board is due and payable.
- If the student's total net bill cannot be paid upon completion of the registration process, enrollment with Tuition Management System is required in order to make monthly payments. The summer sessions require one-half payment by the first class day with the remaining balance to be paid within the following four weeks. May term is due in full by the first class day.
- Returned checks are forwarded to Insta-Chek for collection. Any collection fee will be assessed by Insta-Chek and payment must be made to them. Any accounts or automatic bank drafts and credit card payments set up with Tuition Management System (TMS) that result in insufficient funds will be subject to fees and assessed by TMS. No two-party checks may be cashed.
- A service charge of 1.5% per month of the unpaid balance will be applied to each account not enrolled in a monthly payment plan with Tuition Management Systems (TMS) on the 20th of each month after that balance is 30 days old.
- No degree or diploma will be awarded any student until his financial obligations to the University have been satisfied.
- It will be necessary for McMurry University to refuse to issue a transcript of credits or letter of transfer for any student who has failed to meet his/her financial obligations to the University.
- The Texas Book Company bookstore is the supply store for students and is operated on a cash basis. Checks and major credit cards are also accepted.
- All questions or problems pertaining to payment of accounts should be discussed with the Vice President for Financial Affairs or a representative in the Student Financial Services Office. Any dispute on tuition charges must be resolved by the end of the semester in question. Any other dispute concerning semester charges must be resolved within 30 days from the date the charge was posted to the account. Be advised your account is available to view 24/7 through Campus Connect.
- Personal checks will have the student I.D. number written on them by University staff if a student has not done so already.

## WITHDRAWING FROM THE UNIVERSITY AND TUITION REFUNDS:

No tuition refunds or credits will be made on dropped classes after the Census day of each semester. Upon complete withdrawal from the Uni-

versity, refunds will be assessed using the following schedule. Fees are not refundable and there is no refund for May Term after the Census day. Room cost is non-refundable upon withdrawal after the Census day, but board costs will be prorated to the withdrawal date upon the receipt of the withdrawal form in the Business Office.

Whereas professors are able to academically withdraw a student from class for non-attendance, a student should not expect a professor to take such action automatically. It is the student's responsibility to process a withdrawal in order to receive tuition refunds (if applicable, see below) and to assure good standing with Title IV financial aid in the future.

Tuition refunds for those students who withdraw from the University will be granted according to the following schedule:

### Fall Semester 2012

100% refund  
75% refund of tuition  
50% refund of tuition  
0% refund of tuition

### Aug 27-Dec 14

August 27- September 5  
September 6-14  
September 15-21  
September 22

### First Mini-Term

#### Fall 2012

#### Aug 27-Oct 17

100% refund Aug 27 - Aug 29  
75% refund Aug 30 - Sep 3  
50% refund Sep 4 - Sep 5  
0% refund Sept 6

### Second Mini-Term

#### Fall 2012

#### Oct 18-Dec 14

100% refund Oct 18-22  
75% refund Oct 23-25  
50% refund Oct 26-29  
0% refund Oct 30

### Spring Semester 2013

100% refund  
75% refund of tuition  
50% refund of tuition  
0% refund

### January 14- May 10

January 14 - January 24  
January 25 - February 1  
February 2- February 8  
February 9

### First Mini-Term

#### Spring 2013

#### Jan 14-March8

100% refund January 14-16  
75% refund January 17-22  
50% refund January 23-24  
0% refund January 25

### Second Mini-Term

#### Spring 2013

#### Mar 18-May 10

100% refund March 18-20  
75% refund March 21-25  
50% refund March 26-27  
0% refund March 28

### May Term 2013 May 13-May 31

100% refund May 13-14  
0% refund May 15

### Summer Session I 2013

#### June 3-July 5

100% refund June 3-5  
75% refund June 6-10  
0% refund June 11

### Summer Session II 2013

#### July 8-Aug 9

100% refund July 8-10  
75% refund July 11-15  
0% refund July 16

## WITHDRAWAL CALCULATIONS PROCEDURES/POLICY

A student who must withdraw completely from the University may encounter several financial refund calculations. The first thing considered is the University's refund schedule. Further refunds will be dictated by the type of financial aid that the student has accepted, what has been received by the University and what the student may have received through cash draws from his/her account.

The University's refund policy reflects a 100% refund through the Census Day for each semester. No financial aid will be granted during that time. After the Census Day of each semester, a decreasing percentage of tuition only, is refundable per the schedule above. That amount is credited to the student's account.

If only a percentage of tuition is refundable by the University's policy or if a student withdraws after the last day to receive any tuition refund, the financial aid for that student is reviewed. Title IV Funds (involving Direct Loans, Perkins Loans, Parent Loans, Pell Grants, & SEOG Funds) that come from the government are subject to refund and repayment. The steps in this procedure include:

1. Calculating the percentage of earned aid based on the number of days the student attended classes up to 60% of the semester.
2. Applying that percentage against the aid received.
3. Returning the amount of the unearned portions of aid back to the Title IV programs.
  - a. This may increase the balance owed to the university but decrease what the student would owe later against a loan.
  - b. If the student made cash draws from this aid, it may create a repayment from the student due to the Title IV program.

### Example #1:

Total Cost	6000.00
Tuition = 4000.00	
Title IV Aid	<u>4000.00cr</u>
Balance Owed by Student	2000.00
Withdrew 50% University Tuition Refund Policy	2000.00cr
Withdrew at 20% Title IV	
Earned Aid (80% refund to Title IV programs)	<u>3200.00</u>
Final Balance Student Owes University	3200.00

### Example #2

Total Cost	6000.00
Tuition = 4000.00	
Institutional Aid	1000.00cr
Title IV Aid	<u>4000.00cr</u>
Balance Owed by Student	1000.00
Withdrew 0% University	
Tuition Refund Policy	
Withdrew at 40% Title IV	
Earned Aid (60% refund to Title IV programs)	<u>2400.00</u>
Final Balance Student Owes University	3400.00

A student found to have received all 'F,' 'WF,' and 'I,' grades at the end of a semester is also subject to the Title IV calculation as described above. However, additional steps will be taken to support if the student actually stayed in attendance throughout the semester in at least one course and earned the grade, or if there is a date of last attendance at an academic activity. Professors will be contacted to establish this date; that date will then be the date of withdrawal used to do the Title IV calculations. This calculation tells the school if Title IV funds must be returned to the program as stated by the federal government. If a student earns even one passing grade in a subject, the calculation will not be necessary.

A student must begin any withdrawal with the Student Retention Office, located in the Registrar's Office in the Maegden Building, complete the necessary signatures, and conclude at the Registrar's Office.

## ROOM AND BOARD REGULATION

1. Students are required to live on campus unless they have either completed 60 hours, are 21, are married, or live within 30 miles of campus with a parent or legal guardian. Residence hall rooms are reserved by written agreement for the fall and spring semesters. A student requesting to live off campus must be approved by Assistant Director of Residence Life. An application must be submitted to the Student Affairs Office, located in Presidents Hall, South Entrance.
2. An application/agreement for housing is sent to the student upon their acceptance to McMurry University. The completed Housing Application/Agreement and deposit of \$150.00 needs to be returned to the Admissions Office. Rooms are assigned on a first come-first serve basis and are based on availability.
3. \$100.00 of the housing deposit is returned to the student upon their final move out of the residence hall, provided the room is clean, there is no damage, complete checkout procedures are followed, and the deposit is requested in accordance with the terms of their lease.
4. The room and board charge is maintained by a yearly contract and if required, the price of room and board is subject to change.

**ACADEMIC POLICIES & INFORMATION****GRADES**

Calculated in the Grade Point Average:

**GENERAL DEFINITIONS**

**THE ACADEMIC YEAR** differs from the calendar year in that it is only nine months in duration, beginning late August and ending in May. The academic year begins with the FALL SEMESTER and ends with the SPRING SEMESTER. The academic year, therefore includes portions of two calendar years. The SUMMER SESSION consists of two terms, each approximately five and one-half weeks in duration. The MAY TERM is a three-week interim term which is scheduled after Spring Commencement and before the beginning of the Summer Session. It is described more fully in a later section under the heading of "Courses of Study." The student should refer to the UNIVERSITY CALENDAR which appears at the beginning of this publication.

**CREDIT HOUR.** McMurry University defines a credit hour in accordance with the federal regulations. A credit hour as a reasonable approximation of the student learning outcomes that can be achieved in the context of a course that requires 42-45 hours of student work including both contact time between student and faculty and the student's independent work. While hours of work and contact time can provide guidance in the establishment of credit hour equivalencies, it is understood that the student achievement associated with any credit hour can only be measured adequately in terms of documented qualitative and quantitative outcomes. The successful completion of a credit hour will always take into consideration expectations based on degree level, discipline, the type of learning experience (e.g., didactic, clinical, practica, or internships), and the mode of delivery (e.g., face-to-face or online). This definition is a minimum standard that does not restrict faculty from setting a higher standard that requires more student work per credit hour.

**TERM OF ENROLLMENT.** Enrollment in a specified semester or term is identified by the term designation (i.e. Fall, Spring, May, Summer I, Summer II). Example: A student enrolled in 6 hours for the full fall semester, plus 3 hours mini I and 3 hours mini II, is considered to be a full time student for the fall semester enrolled in 12 credit hours, since all fall courses carry the same term designation. Final grades for all courses in a designated term are posted to the students' transcripts at the end of the semester.

**NUMBERING OF COURSES.** Credit in college courses is counted in semester hours. (A course meeting three lecture hours per week for one semester has a credit value of three semester hours.) Freshmen-level courses are numbered in the 1000s; Sophomore-level courses are numbered in the 2000s; Junior-level courses are numbered in the 3000s; and Senior-level courses are numbered in the 4000s. The second digit in the course number designates the number of semester hours credit for the course; the third and fourth digits distinguish one course from another. All Junior- and Senior-level courses are called advanced courses and are numbered in the 3000s and 4000s. A student who does not have the necessary standing or prerequisites will not be allowed to register for an advanced course.

**Not Calculated in the Grade Point Average:**

- WP** Academic work was of passing quality at the time of withdrawal from a course.
- P** The academic work was of passing quality but not included in grade point calculation (assigned only in courses taught on Pass/Fail basis)

**Grade Symbols**

The instructor is responsible for whatever grade symbol (A, A-, B+, B, B-, C+, C, C-, D+, D, D-, F, P, I, WF, WP) is to be assigned. Other symbols used are indications of registration or grade status and may or may not require action by an instructor and are NOT included in the GPA.

- W** Student withdrew from the course within the first six weeks of a regular semester.
- NR** Grade was not reported to Registrar.

Grade	Quality Points
A	4.00
A-	3.67
B+	3.33
B	3.00
B-	2.67
C+	2.33
C	2.00
C-	1.67
D+	1.33
D	1.00
D- (Passing)	0.67
F (Failing)	0
WF (Failing)	0
I (Incomplete)	0

**INCOMPLETE GRADE POLICY**

**INCOMPLETE** is a temporary grade indicating course requirements were not completed and arrangements have now been made between the instructor and the student to complete the remaining requirements after the close of the semester. Assigning an incomplete grade requires the approval of the dean and is reserved for special and unusual circumstances such as family emergencies or serious illness. The course instructor must obtain and complete the Request to Assign Incomplete Grade form, which is available from the office of the Dean or the Registrar. If approved, the dean will submit the incomplete grade to the Registrar's Office.

The incomplete grade must be completed with the instructor who taught the course and will expire on the dates outlined below. If no grade is submitted, the incomplete will expire to an F on the date indicated. A grade change form completed in the Registrar's Office is required to change an incomplete grade to a final grade. In order to change an F to an alternate final grade, a grade change form is required, along with the signature of the VPAA.

**FOR STUDENTS WHO ARE NOT CANDIDATES FOR GRADUATION**

All final grades for previous semesters due in Registrar's Office by:	If INC grade is earned at the end of:	Grade due in Registrar's Office by:	‡ Final grade due in Registrar's Office or INC will expire to F on:
n/a	Fall	n/a	May 15
n/a	Spring, May Term, Summer	n/a	December 15

**FOR GRADUATION CANDIDATES**

	* All final grades for previous semesters due in Registrar's Office by:	If INC grade is earned at the end of:	Grade due in Registrar's Office by:	‡ Final grade due in Registrar's Office or INC will expire to F on:
DEC Candidates	October 1 immediately preceding anticipated Dec commencement	Fall	<b>Jan 15</b> / INC grades received after Jan 15 will result in a later graduation date	May 15
MAY Candidates	March 1 immediately preceding anticipated May commencement	Spring	<b>June 15</b> / INC grades received after June 15 will result in a later graduation date	Sept 15
AUG Candidates	March 1 immediately preceding anticipated May commencement	May Term or Summer	<b>Sept 15</b> / INC grades received after Sept 15 will result in a later graduation date	Dec 15

\* Exceptions for graduation candidates include honors thesis presentations, music recitals, theatre direction, others as applicable with approval of Registrar. The instructor and the candidate should remain in contact with the Registrar regarding the status of these situations.

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‡ Extensions beyond this date are reserved only for unique circumstances and may be granted with approval of the instructor and the Dean and notification of the Registrar.

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## GPA Calculations / Grade Appeals

### GRADE POINT AVERAGE (GPA)

The cumulative grade point average includes only McMurry University course grades. Credit accepted for transfer from another institution is included in the total amount of credit applicable to degree requirements, but grades earned in such courses are not recorded on the permanent record at McMurry University and are not used in computing the cumulative grade point average needed for graduation.

### GRADE POINT CALCULATION

In order to meet the requirements for a degree, the average grade for all work done must be at least a grade of C (2.0).

The grade point average is calculated by dividing the total hours attempted into the total grade points accumulated.

Only courses taken at McMurry University are computed into the student's transcript GPA. At the time of graduation, only courses completed at McMurry University will be used to calculate eligibility for honors designations.

### REPORTING OF GRADES

Students may view their semester grades on Campus Connect. Students may request a paper copy, if needed, in the Registrar's Office. Grade reports are subject to the same privacy laws and requirements as transcripts. Please refer to "Student Privacy" in a prior section of this catalog.

### REPETITION OF COURSES

Once the final grade has been given in a course, this grade may not be altered by additional work or by examination. A course may be repeated for the purpose of raising the grade, but the last grade shall stand as the permanent record in any case, except for courses that are designated as repeatable for credit. If the student wishes to repeat a course such as this for the purpose of raising a previous grade in that course, he/she must notify the Registrar.

Only credit for courses, and not the grades earned in these courses, taken at institutions other than McMurry University (or through intercollegiate enrollment) can be accepted for transfer to McMurry University. If a student fails a course at McMurry, the student can earn credit for that course at another institution and transfer the credit hours to McMurry. In this case, however, the original grade earned in the course taken at McMurry will remain on the McMurry transcript and continue to be calculated as part of the student's transcript GPA. Thus, in order to remove a grade of D or F from the calculation of the student's transcript GPA, the student must repeat the course at McMurry University (or through intercollegiate enrollment).

### DEAN'S LIST AND DEAN'S HONOR ROLL

The Dean's List is an academic honor roll made up each semester of those students who have carried a minimum of twelve semester hours and have achieved a grade point average of 3.5 or above for that semester.

The Dean's Honor Roll is an academic honor roll made up each semester of those students who have carried six to eleven semester hours and have achieved a grade point average of 3.5 or above for that semester.

### ACADEMIC PROBATION AND SUSPENSION

The institutional requirement for graduation is a "C" (2.00 grade point average) or higher; notification of probation is a warning that a student's grades fall below acceptable standards. If substandard performance continues, a student is then suspended from continued enrollment. At the conclusion of each fall and spring semester, every student's performance is evaluated to determine whether probation or suspension is warranted. This performance evaluation is based on cumulative hours (the higher of attempted or earned) including transfer hours, as stipulated in the categories below.

**Academic Probation.** A student is placed on academic probation when his or her cumulative GPA falls below the minimum requirements in the table below.

Hours	GPA
0-32	1.60
33-48	1.80
49 and Above	2.00

**Academic Suspension.** A student on academic probation whose cumulative grade point average falls below that indicated below, will be placed on academic suspension. The third consecutive semester of grades below probation but above suspension will result in suspension.

Hours	GPA
0-32	1.40
33-48	1.60
49 and Above	2.00

Students on suspension may appeal for reinstatement to the Student Appeals Committee. Suspended students may not enroll at McMurry for a minimum of one full semester and must receive readmission approval before re-enrolling. Suspended students who are allowed to re-enroll are placed on probation for the semester in which they are readmitted.

The Application for Readmission is obtained from the Registrar's Office and is processed through the Vice President for Academic Affairs (VPAA), Vice President for Student Relations, and the Vice President for Financial Affairs. The VPAA will notify the student of the action taken on the Application for Readmission. Applications for Readmission should be submitted to the Registrar at least 10 days before the beginning of the semester for which the student desires admission.

### EXTRACURRICULAR ACTIVITIES AND ACADEMIC GOOD STANDING

McMurry University offers a wide variety of activities for students in keeping with its mission to provide a Christian liberal arts and professional education. These include but are not limited to the following: band and choral music organizations and ensembles, intercollegiate athletics, intramural athletics, McMurry Christian Ministries, Campus Activities Board (CAB), national honor societies, professional organizations, publications, service clubs, social clubs, special interest groups, and theatre.

In general, a student who is eligible to enroll for classes is considered to be in good standing for extracurricular activities. Additional and more stringent requirements may be established by supervisors of these activities, groups, organizations, or societies. For participation in intercollegiate athletics a student must demonstrate satisfactory progress toward a degree. In order to demonstrate satisfactory progress a student/athlete must be enrolled full-time (a minimum of twelve semester hours) unless fewer hours are required for graduation.

Financial aid requirements for satisfactory progress and other regulations are explained separately in this catalog and elsewhere.

### GRADE APPEALS

If a student disagrees with the grade received in a class, the student has the right to appeal using a formal appeal process. All grade appeals must be confined to irregularities in class policy and the assignment of grades. Concerns or complaints about faculty attitudes, ideas, or behavior should be directed to the dean of the school offering the class or the dean of students. If the academic dean is the subject of the complaint, the student should speak with the Vice President for Academic Affairs.

Grade appeals deal with the policies, as stated in the syllabus, by which final course grades are determined. Classes may vary among instructors, but fundamentally fair treatment of students in compliance with the syllabus provided for the course should be a constant. The process for appealing a grade works as follows (except for courses taken in the Patty Hanks Shelton School of Nursing):

1. Initial attempts to resolve any grade dispute must be between the student and the instructor for the course.
2. If meeting with the instructor does not resolve the dispute, the student can proceed with the complaint by making an appointment to discuss the issue with the dean of the school. Depending on the situation, the dean may request a follow-up meeting to include the student and instructor.
3. If meeting with the dean does not resolve the dispute, the student can make a formal appeal to the Student Appeals Committee. The complaint must be initiated within thirty days of the posting of grades. This is a formal written appeal that consists of the following materials:
  - a. A written statement of the issue and past attempts to resolve the issue with the instructor involved and the dean of the school.
  - b. Any pertinent documentation supplied by the student in support of their argument, including a copy of the course syllabus and any specific assignments or coursework related to the complaint.
4. The Student Appeals Committee will solicit feedback from the instructor and may schedule a hearing at which both parties will be given limited but equal time to present their cases and for rebuttal. A question and answer period will allow committee members to solicit additional information.
5. At the conclusion of the testimony, both parties will be dismissed and the Student Appeals Committee will deliberate and vote on the appeal. A simple majority vote is required to decide the appeal. The student, instructor, and Vice President for Academic Affairs will be notified in writing of the committee's decision.
6. Decisions of the Student Appeals Committee are final and cannot be further appealed.

### CLASSIFICATION OF STUDENTS

- » A Freshman is one who has satisfactorily met all University entrance requirements, but who has completed fewer than thirty semester hours of work (0-29 hours).
- » A Sophomore is one who has satisfactorily met all University entrance requirements, and who has completed thirty or more semester hours of work (30-59 hours).
- » A Junior is one who has completed sixty semester hours of work, and who has satisfactorily met all entrance requirements (60-89 hours).
- » A Senior is one who has completed ninety semester hours of work, and is a candidate for a degree (90 hours and above).
- » A Post-Baccalaureate student has completed a baccalaureate degree, and is taking courses toward additional certification or for personal benefit only.

### CLASS ATTENDANCE

It is understood that attendance is part of the learning commitment - placing oneself in a class setting where effective educational communication and interaction can happen. Both faculty and students are expected to be regular and punctual in their attendance habits. Professors and students cooperate and are responsible for shaping a community at work. As part of this responsibility, attendance will be noted in some manner suitable to the size of the class, group, and type of activity. Any necessary absence occurring while a student is representing the University in some official way will be considered an authorized absence. Work missed due to such an absence is to be made up as the respective professor determines. Please refer to the Council Fire, Faculty Handbook, or course syllabus for more specific information.

### ABSENCES

The following guide will help you determine the number of unauthorized absences allowed before a professor may drop a student from the class. Each professor will determine the consequences for absenteeism in his or her class. This will be noted in the syllabus.

- 3 absences in MWF classes per semester
- 2 absences in TR classes per semester
- 1 absence in a 2 or 3 hour class that meets once a week
- 3 tardies equal one absence

### ADDING OR DROPPING COURSES

A student may add a course with the permission of the advisor at any time during the first 5 days of the semester. A student may drop a course with the permission of the instructor and the advisor with the grade of W at any time through the sixth week of the semester. After the sixth week of class, a student may drop a course with the permission of the instructor and the advisor and will be assigned the grade of WP or WF. For information regarding the last date to withdraw from a class, refer to the college calendar on page 4. A course may not be dropped after that date. The process of adding or dropping a course has not been completed until the form requesting permission to add or drop a course has been returned to and processed by the Office of the Registrar.

### WITHDRAWAL PROCESS FROM THE UNIVERSITY

A student who must withdraw from the University is required to complete the following steps:

1. Report to the Student Retention Coordinator in the Registrar's Office to obtain a withdrawal form, exit survey.
2. Take the form to the Financial Aid Office.
3. Take the form to Resident Life & Housing Campus Center #104.
4. MOVE by Dan Jones Jay-Rollins Library #112
5. Take the form to the Business Office
6. Return the completed form to the Registrar's Office.

Unless a student officially withdraws, the University has no choice but to record a grade of F in every course in which the student was enrolled. See the Financial Information section for refund dates and amounts.

*The University reserves the right to withdraw any student from a course and/or from the University when the student ceases to attend classes.*

### EMERGENCY MILITARY RECALL, REACTIVATION, OR DEPLOYMENT

It is McMurry University's policy to work with all students on an individual basis as they encounter serious and unusual circumstances affecting their educational progress. McMurry University supports our nation's military efforts and those who currently serve, those who have served, and those who are family members. Therefore, during times requiring recall/reactivation and/or deployment, McMurry University will counsel and plan with the specific student to minimize accompanying inconveniences and maximize academic credit established up to the time the student's military involvement is required. Upon receipt of notification of a status change, the student should immediately contact the Vice President for Academic Affairs who will assist the student in making the best decisions for the student's circumstances.

### NUMBER OF HOURS A STUDENT MAY CARRY, FALL AND SPRING SEMESTERS

McMurry University defines a full-time student as one who is enrolled for a minimum of twelve (12) semester hours. A student who is not on academic probation may register for up to eighteen semester hours. A student on academic probation is limited to sixteen semester hours.

### OVERLOAD POLICY

A student must have a B (3.0 grade points) average to be eligible to take more than eighteen semester hours. To take more than eighteen semester hours, a student must secure the approval of the Vice President for Academic Affairs. Overload permission forms are available in the Registrar's Office.

### PREPARATION

An average of two hours outside preparation is expected for each hour in class. A full-time student needs forty-five to sixty hours per week for classroom attendance and preparation for classwork.

## Degree Requirements

### Schools

Seven baccalaureate degrees and one graduate degree are offered through the following six schools:

#### School of Arts and Letters

Dr. Christina Wilson, Dean

Art	Communication Studies
English	Music
Spanish Studies	Theatre

#### School of Business

Dr. K. O. Long, Dean

Accounting	Computer Information Systems
Finance	General Business
Heritage & Cultural Tourism	Management
Marketing	

#### School of Education

Dr. Perry K. Haley-Brown, Dean

Education	Kinesiology
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#### School of Natural and Computational Sciences

Dr. Alicia Wyatt, Dean

Biology	Chemistry
Computer Science	Geosciences
Mathematics	Physics

#### School of Nursing

Dr. Nina Ouimette, Dean

Nursing

#### School of Social Sciences and Religion

Dr. Phil LeMasters, Dean

Greek	History
Philosophy	Political Science
Psychology	Religion
Servant Leadership	Sociology

## COURSES OF STUDY

#### B.A. - Candidates for the B.A. degree may major in the following areas (a minor is required):

Chemistry	Christian Ministry
English	English and Writing
History	Multimedia and Graphic Design
Music	Political Science
Psychology	Religion
Sociology	Spanish
Studio Art	Theatre

#### B.A. - Candidates for the B.A. Degree with Teacher Certification may major in the following areas (A minor in Curriculum and Instruction is required):

Art Education	Chemistry Grades 8-12
English Grades 4-8	English Grades 8-12
History Grades 8-12	Social Studies 8-12
Spanish EC-12	Theatre Arts Education

#### B.B.A. – Candidates for the B.B.A. degree may choose from the following concentrations (a minor is required for Heritage and Cultural Tourism):

Accounting	Computer Information Systems
Finance	General Business
Heritage and Cultural Tourism	Management
Marketing	

#### B.F.A. - Candidates for the B.F.A. degree may major in the following areas (a minor is not required):

Multimedia and Graphic Design	Studio Art
Theatre	

#### B.I.S. - Candidates for the B.I.S. degree select three fields of study. See Bachelor of Interdisciplinary Studies section for further information.

#### B.M.E. - Candidates for the B.M.E. degree may major in the following areas:

Choral Emphasis	Instrumental Emphasis
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#### B.S. - Candidates for the B.S. degree may major in the following areas (minor required according to major; please refer to departmental sections of this Catalog):

Accounting	Biochemistry
Biology	Biomedical Sciences
Chemistry	Computer Science
Exercise Science & Human Performance	
Information Technology	Life Science
Mathematics	Physics

#### B.S. - Candidates for the B.S. degree with Teacher Certification may major in the following areas (A minor in Curriculum and Instruction is required):

All Level Physical Education	Computer Science Grades 8-12
Early Childhood Education	Life Science 8-12
Mathematics Grades 4-8	Mathematics Grades 8-12

Multidisciplinary Studies I

8-12 Certification

#### Teaching Fields:

Business Basic	Physical Sciences
Technology Applications	

Multidisciplinary Studies II

4-8 Certification

#### Teaching Fields:

Science	Social Studies
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**B.S.N.** – Candidates for the B.S.N. major in Nursing will apply to the Patty Hanks Shelton School of Nursing.

**M.S.N.** See Graduate Studies section of the catalog for information on applying to this program.

## REQUIREMENTS FOR DEGREES

**General Regulations.** Seven baccalaureate degrees: the Bachelor of Arts, the Bachelor of Science, the Bachelor of Business Administration, the Bachelor of Fine Arts, Bachelor of Interdisciplinary Studies, Bachelor of Music Education, and the Bachelor of Science Degree in Nursing - are conferred by McMurry University upon recommendation of the faculty and the approval of the Board of Trustees. Recommendations for the baccalaureate degrees are contingent upon the following conditions being met:

#### Written Application for Graduation.

Candidates for graduation must make written application in the Registrar's office at the beginning of the long semester just prior to the expected graduation semester:

**September 1<sup>st</sup>** for students who expect to graduate the following May or August.

**February 1<sup>st</sup>** for students who expect to graduate the following December.

#### Transfer Credits.

All transfer credits which apply to a degree, whether earned at a regionally accredited higher education institution through distance learning or in residence, must be on file in the Registrar's Office by the beginning of the final semester leading to the degree. Any grade below C- will not be accepted for transfer. When a student has earned 66 credit hours or more



toward a baccalaureate degree, credit earned from a junior college cannot be accepted thereafter toward any degree. Following matriculation, any credits transferred must be approved in advance through submission of a Transfer Course Application, available in the Registrar's Office. The application requires approval of the Registrar, academic advisor, Certification Officer (if applicable), and the appropriate department or dean. Any hours taken without prior permission may not count toward a McMurry University degree.

### **Graduation Under a Particular Catalog.**

A candidate may obtain a degree according to the requirements of the catalog under which he/she enters the University or the catalog governing any subsequent year in which he/she is registered, provided that all requirements are completed within six years of the date of the catalog chosen. A student may always graduate under the current catalog. **The meeting of requirements and regulations of the catalog is the final responsibility of the student and not of the University.**

### **Conferring of Degrees.**

Degrees are conferred three times each year, with recognition of graduates at commencement ceremonies twice a year. Students who complete their requirements in the fall semester participate in a December commencement ceremony, and those who complete their requirements in the spring or summer semesters participate in May commencement exercises. Degrees are conferred in December and May (as of the day of Commencement) and in August (as of the last day of Summer courses).

Students are responsible for meeting all the graduation deadlines listed elsewhere in this catalog. Once a degree is conferred, it is considered final. No additional majors, minors, concentrations, focus areas, teaching fields, or emphasis can be added to a degree once it has been conferred. For students interested in obtaining a second degree, please see information in the "Requirements for a Second Degree" section of the catalog.

### **Graduation with Honors.**

At the time of graduation, a student is designated Summa cum Laude if the student's cumulative grade point average is 3.85 or above; Magna cum Laude, 3.7; cum Laude, 3.5. To be eligible for graduation with honors, a student must have completed a minimum of fifty seven semester hours in courses at McMurry University. Grades for all courses taken at McMurry, including courses in which the student received a "D+", "D," "D-", "F," or "WF," or "I" will be included in the calculation of honors.

### **Diplomas.**

Diplomas are provided to graduates once all final degree requirements, grades, and transcripts have been received and verified. The diploma will include the degree, Latin honors, departmental honors, and honors program. It will not include the major, minor, concentration, focus, etc. Only the name of the student listed in our student information system will be printed. If another name is requested, official documents will be required to verify the name change. Titles and other name designations will not be printed on the diploma. Diplomas cannot be released for students who have a hold in any area of the university.

If a replacement diploma is needed, a request can be made to the Registrar's office, along with a fee of \$25.00. Any replacement diploma will include the current format and signatures in use at the time of reprinting, and the request will be honored with the next subsequent diploma printing. Typically, diplomas are printed three times a year following each of the degree conferral dates in May, August, and December.

### **Residence Work.**

At least 25% of all hours required for the baccalaureate degree must be taken in residence. Remedial credit and credit earned by examination do not apply as residence hours. All candidates for degrees must do their last twelve hours in regular class work on the campus. Distance learning work is not permitted during the last semester without specific approval of the Registrar. All candidates for degrees must complete at least six semester credit hours in residence in the major, minor, focus areas, concentrations, and/or teaching fields. Intercollegiate courses and courses taken through the Patty Hanks Shelton School of Nursing satisfy McMurry residency requirements.

### **General Electives.**

The number of general education electives required may vary by the choice of degree and major. Each student will be required to take enough lower and/or upper level elective hours to meet a total of 39 advanced hours and 120 overall hours excluding remedial courses. Questions concerning general education electives should be directed toward either the student's academic advisor, the office of Academic Advising, or the Registrar.

### **Semester Hours.**

A candidate for a baccalaureate degree must complete a minimum of one hundred twenty credit hours, excluding remedial courses.

### **Advanced Hours.**

All baccalaureate degrees require a minimum of 39 advanced semester hours. Additionally, a minimum of 12 advanced hours are required for the major and 6 advanced hours are required for the minor.

### **Applied Fine Arts Credit.**

Not more than twelve semester hours of applied fine arts will be accepted as credit towards a bachelor's degree except for a major or minor in music.

### **Health Fitness Credit.**

Not more than eight semester hours of Health Fitness courses will be accepted as credit towards a bachelor's degree. Courses are repeatable for credit.

### **Grades.**

An average of C (2.0 GPA) must be made on the total work undertaken at McMurry University. Some majors specify a higher required GPA for completion. No grade of less than C quality is acceptable in the major, concentration, focus area, field of study, or teaching field. Some majors specify the grade required in general education courses.

### **Choice of Major and Minor.**

The student is advised to choose his/her major early in his/her college career, but is not required to do so until the beginning of his/her junior year. The University is not obligated to offer courses for a student who changes his/her major after the first semester of the junior year. The student should secure his/her academic advisor's approval upon the choice of both major and minor.

### **Concurrent Enrollment Policy.**

No student may be concurrently enrolled in any other residence-required courses or programs at another regionally accredited college or university without prior approval by the Vice President for Academic Affairs. A student may take no more than 18 total credit hours during a semester as per the **overload policy** in this catalog. Non-residence and distance learning courses from regionally accredited institutions may be taken for transfer credit as per the guidelines of the Transfer Credit section of this catalog. The transfer course application for this purpose is available in the Registrar's Office (Financial Aid restrictions may apply). Courses taken through the Intercollegiate Enrollment program are not subject to these requirements. Please see the section on Intercollegiate Enrollment in the Special Programs section of this catalog on page 37.

### **Requirements for Second Degree.**

A McMurry graduate wishing to obtain a second degree must complete the requirements under a single catalog in effect after entering school for the second degree. A minimum of 150 total credit hours are required, with a minimum of 51 total hours at the advanced level. The second degree must include at least one field of study different from the one(s) earned for the first degree. All other requirements must be met for the second degree and must be completed within six academic years in order to graduate with the second degree under the entering catalog. All credit for the second degree must be earned in McMurry courses.

## McMURRY FOREIGN LANGUAGE REQUIREMENT

### BA Degree

BA candidates must take at least 1 year of a foreign language at the college level or show proficiency by taking an elementary foreign language proficiency exam or CLEP. Five BA majors require 2 years of a foreign language or proficiency by exam: English, English and Writing, History, Political Science, and Religion.

### BFA Degree

BFA candidates must take at least 1 year of a foreign language at the college level or show proficiency by taking an elementary foreign language proficiency exam or CLEP.

### BIS Degree

BIS candidates must take one semester of a foreign language at the college level or show proficiency by taking an elementary foreign language proficiency exam or CLEP.

### BS Degree

Two years high school credit in a single foreign language satisfies the BS language requirement. Students who do not have this high school credit will be required to take 8 hours of a foreign language at McMurry. Students who graduated from high school prior to 1993 do not have a foreign language requirement for the BS degree.

### BS Degree / BME/ Multidisciplinary Studies Major

Two years high school credit in a single foreign language satisfies the BS / MS language requirement for education majors. Students who do not have this high school credit will be required to take 8 hours of a foreign language at McMurry. Students who graduated from high school prior to 1993 do not have a foreign language requirement for the BS/MS degree.

### BBA Degree

Two years high school credit in a single foreign language satisfies the BBA language requirement for business majors. Students who do not have this high school credit will be required to take 8 hours of a foreign language at McMurry. Students who graduated from high school prior to 1993 do not have a foreign language requirement for the BBA degree.

### BSN Degree

Two years high school credit in a single foreign language satisfies the BSN language requirement. Students who do not have this high school credit will be required to take 8 hours of a foreign language at McMurry. Students who graduated from high school prior to 1993 do not have a foreign language requirement for the BSN degree.

## McMURRY UNIVERSITY HONORS PROGRAM

*Dr. Philip LeMasters, Director*

The McMurry University Honors Program includes two distinct tracks designed to enrich the academic experience of our most outstanding students. Every McMurry student with a 3.25 GPA is considered an honors student and encouraged to take honors courses. In order to graduate from the Honors Program, a student must be admitted to and complete all the requirements of one of the following honors tracks:

### University Honors:

#### *Incoming Freshmen*

Incoming freshmen are eligible to apply for admission to this four-year honors track if they meet one of the following criteria: 27 ACT/1220 SAT; standing in the top 5% of the graduating class; or completion of twelve hours of dual-credit courses at McMurry with a GPA of at least 3.5. The

deadline for application is February 1 of the calendar year in which the student enrolls at McMurry. The top two applicants receive full-tuition scholarships for four years, while others may receive a \$3,000.00 scholarship each year for four years. Students who apply for the program after February 1 may in some cases be eligible to receive a \$3,000.00 award, dependent upon how many students have been admitted to the program previously.

### *Transfer Students*

Transfer students are eligible to apply for admission to this four-year honors track if they have a GPA of at least 3.5 for at least twelve transferable hours completed at another accredited institution. The deadline for application is July 15 of the calendar year in which the student enrolls at McMurry. A limited number of \$1,000.00 scholarships are available for transfer honors students. Students who apply for the program after July 15 may in some cases be eligible to receive a \$1,000.00 award, dependent upon how many students have been admitted to the program previously.

### *Application Procedure*

Qualified applicants for the University Honors Track will receive an application packet upon their admission as McMurry students. After supplying all the required application materials, they will have an interview with a committee of professors or with the director of the honors program. Decisions on admission to honors and scholarships will be made after the interview.

### *Course Requirements*

University Honors students will earn honors credit in at least twelve hours of honors courses, preferably taken before the senior year. (Alternatively, they may complete the fifteen hours of The Texas Semester with a GPA of at least 3.5 for those courses.) In order to continue in this track and retain an honors scholarship, they must maintain 3.25 GPA for their honors work and a 3.5 GPA for all McMurry course work. They must also make reasonable progress toward graduation from the program. This track is open to all majors. Students with honors scholarships must register for thesis hours during the senior year in order to retain their scholarships.

### *Nursing Students*

Honors scholarships are not transferrable to the Patty Hanks Shelton School of Nursing. Pre-nursing students may have the benefit of these awards during the freshman and sophomore years on the McMurry campus, but not as students of the School of Nursing.

### **Departmental Honors:**

This honors track is designed for students who wish to develop an advanced level of competence in their major field. Students must have a 3.25 GPA\* and have completed 60 semester hours of college work in order to apply for admission. Students will earn 7 hours of honors credit, normally including 3-6 hours of honors courses in the department and a 1-3 hour honors thesis in the major field. Students in all majors may participate in Departmental Honors.

\*(A GPA higher than 3.25 is required for admission to departmental honors in Business, Communications, Curriculum & Instruction, Music, and Nursing. It is possible to apply for admission to Departmental Honors in Music after completing 30 hours of college work.)

### **Departmental Requirements for Honors Thesis**

Each academic department determines the prerequisites for writing an honors thesis in that discipline. Regardless of which track of the honors program a student is in, he or she must meet the requirements set by the major field. In the case of an interdisciplinary thesis, such as one in Great Books, the honors program director will appoint at least three appropriate faculty members to determine the course requirements for the student and oversee the thesis. In all cases, it is the responsibility of the student to be aware of the requirements for graduation from the honors program and to be in touch with the honors program director whenever questions arise.

In order to receive the approval of an academic department for admission to its honors program, a student must complete the "Application for Honors Program" form with the endorsement of the head of the appropriate department. In order to begin work on an honors thesis, a student

must complete the "Honors Thesis Proposal" form with the endorsement of the student's thesis committee. A copy of each of these forms is included in the appendix of The Honors Handbook. These requirements apply to students in both tracks of the honors program.

*In order to graduate from either track of the honors program, a student must earn at least seven hours of honors credit and maintain an overall and major field GPA of at least 3.25. The following departments require a GPA higher than 3.25 for their honors students: Business, Curriculum and Instruction, Music, and Nursing.*

**Art:**

Admission requires completion of at least 60 hours of credit, including 12 hours of Art, with an overall and art GPA of at least 3.25. Students will complete seven hours of honors credit, including three to six hours of honors tutorial in Art and a senior thesis (1-3 hrs), and graduate with an overall and Art GPA of at least 3.25. Dependent upon the focus of the thesis, the student may present along with it his/her original art work.

**Biology:**

Admission requires completion of 60 hours of college credit; 16 hours of Biology courses, including BIOL 1301, 1402, and 1403; and an overall and Biology GPA of at least 3.25. Required honors courses: Biology 4X96\* Honors Tutorial (1-3 hrs and may be repeated) and Biology 4X97\* Honors Research (3 hrs). Students must earn four hours of credit for BIOL 4X96\* and three hours for BIOL 4X97\*. Students must graduate with a Biology GPA of at least 3.25 in order to receive the honors designation.

**Business:**

Admission requires completion of 60 hours of college credit and a GPA of at least 3.5 in ACCT 2310; ECON 2310, 2320; and BA 1310, with a GPA of 3.25 in all other college work. Students must complete seven hours of honors courses in Business, including BA 4X96\* (Honors Tutorial) and BA 4X97\* (Honors Thesis). Departmental honors will be obtained in the Student's area of business concentration.

**Chemistry and Biochemistry:**

Admission requires completion of 60 hours of college credit, including CHEM 1410, 1420, 2430, 3410, and 3420 with an overall and Chemistry/Biochemistry GPA of 3.25. Students must complete seven hours of honors courses, to be distributed between CHEM 4X96\* and CHEM 4X97\* and culminating in a senior thesis.

**Computer Science:**

Admission requires completion of 60 hours of college credit, including CSC 1325, 1340 and 2330, with an overall and Computer Science GPA of 3.25. Students must complete seven hours of honors courses, to be distributed between CHEM 4X96\* and CHEM 4X97\*, and culminating in a senior thesis.

**Curriculum and Instruction:**

Admission requires completion of 60 credit hours with a GPA of at least 3.5. Thesis proposals by EC-6 students will require the approval of the Education faculty, and students will complete a thesis in some facet of elementary education (e.g., pedagogy, curriculum, etc.). Theses on elementary education will be directed by a member of the Department of Curriculum and Instruction. Students will earn six hours of credit for the senior thesis, which will function as six hours of major electives.

**English:**

Admission requires completion of 60 hours of college credit, 15 hours of English, and an overall and English GPA of at least 3.25. Students must complete at least seven hours of honors courses, including ENG 4X96\* (Honors Tutorial) and either ENG 4X97\* Senior Thesis or ENG 4X98\* Senior Opus. A senior thesis or opus in English must be between 75-150 pages in length. The senior opus must be a piece or collection of original prose, poetry, or drama.

**History:**

Admission requires completion of 60 hours of college work, 15 hours in History, and an overall and History GPA of at least 3.25. Students will complete seven hours of honors courses, HIST 4X96\* Honors Tutorial (3-6 hrs) and 4X97\* Honors Thesis (1-3 hrs), and at least 24 hours in History.

**Kinesiology:**

Admission requires completion of 60 hours of college work, including KINE 2330 and 2335, and an overall and KINE GPA of 3.25. Students will earn seven hours of honors credit, including KINE 4X96\* Honors Tutorial (3-6 hours) and 4X97\* Senior Thesis (1-3 hours). KINE 4399 Special Topics: History of the Olympics will also count toward honors requirements in KINE.

**Mathematics:**

Admission requires completion of 60 hours of college work, including MATH 2315, 2421, 2322, 3302, and an overall and Mathematics GPA of 3.25. Students will complete seven hours of honors credit, including MATH 4X96\* Honors Tutorial and 4X97\* Senior Thesis.

**Music:**

Admission requires completion of 30 hours of college work for sophomores or 60 hours of college work for juniors; and overall GPA of 3.25 and music GPA of 3.4. Students must complete seven hours of honors courses in music and maintain the above GPA's at graduation. Students will choose one of the following tracks: (1) Music History, Music Education, or Music Theory: requires the completion of an honors thesis in music or (2) Performance: requires the completion of at least one honors recital. The honors thesis and honors recital courses are each two-hour courses, and may be repeated once.

The honors recital will be evaluated by a committee structured in the same way as a thesis committee. The student must secure the approval of the committee by audition at least four weeks prior to the beginning of the final examination period for the semester in which the recital is completed. All students choosing the recital track will complete Honors Recital: a performance of at least 52 minutes of music, with at least one work memorized and program notes written by the student for each work. Students enrolling for a second honors recital may also complete Honors Recital II: a lecture or recital of at least 60 minutes duration on a specific subject, genre, or composer. Program notes will be at least 10-15 pages long. Students delivering a lecture will submit to the committee a text of at least that length on which the lecture is based.

The following courses may be taken for honors credit in music:

- I. Music History (3-6 hours): M LH XX99 Special Topics (such as Symphonic Literature, Chamber Music Literature, composer, comparison, and period courses), and M LH 4X95 Independent Study.
- II. Music Theory (3-6 hours): M TH 4260 Advanced Orchestration, M TH XX99 Special Topics (such as Compositional Trends and Analysis, Schenkerian Analysis), M TH 4X95 Independent Study.
- III. Music Education (3-6 hours): MUED XX99 Special Topics (such as The Changing Voice, Implementing the National Standards Through Instruction), and MUED 4X95 Independent Study.
- IV. Honors Thesis or Recital (2 hours, repeatable once).

**Nursing:**

Admission requires application to the Dean of the Patty Hanks Shelton School of Nursing by October 15th of the sophomore year. By the beginning of the junior year, the student must have an overall GPA of at least 3.25, join and be active in the local Student Nurses Association, make normal progress toward graduation in nursing courses, and be eligible for recommendation to Sigma Theta Tau. Students will enroll in NURS 4396\* Honors Tutorial during the spring of the junior year, and 4397\* Honors Thesis during the first summer session after the junior year. The fall of the senior year, students will enroll in NURS 4344\* Theories and Research. The thesis will be completed in its entirety during this course. During the spring of the senior year, the student will enroll in NURS 4197\* Honors Thesis and make a formal, public presentation of the thesis.

**Physics:**

Admission requires completion of 60 hours of college work, 15 hours of Physics, including PHYS 2510, 2520, and 3300, and overall and Physics GPA of 3.25. Students will complete seven hours of honors credit, including PHYS 4X96\* Honors Tutorial (3-6 hours) and PHYS 4X97\* Honors Thesis.

## Dyess AFB Program

### Political Science:

Admission requires completion of at least 60 hours of college work, 18 hours of Political Science, an overall and Political Science GPA of 3.25. Students will complete seven hours of honors credit, including PSC 4X96\* Honors Tutorial and PSC 4X97\* Senior Thesis.

### Psychology:

Admission requires completion of at least 60 hours of college work; an overall and Psychology GPA of 3.25; completion of 24 hours in Psychology; and eligibility for membership in Psi Chi. Students will complete PSYC 4X96\*, Honors Tutorial and PSYC 4X97\* Senior Thesis.

### Religion:

Admission requires completion of at least 60 hours of college work, 15 hours of Religion, including REL 1330, 2350, 2330, and 2340, and an overall and Religion GPA of 3.25. Students will complete seven hours of honors course work in Religion, including REL 4X96\* Honors Tutorial (3-6 hours), and 4X97\* Senior Thesis.

### Sociology:

Admission requires completion of at least 60 hours of college work; an overall and Sociology GPA of 3.25; completion of 15 hours in Sociology; and eligibility for membership in Alpha Kappa Delta. Students will complete SOC 4X96\* Honors Tutorial and SOC 4X97\* Senior Thesis.

### Spanish:

Admission requires completion of at least 60 hours of college work, 14 hours in Spanish, including SPAN 1410, 1420, 2310, 2320; an overall and Spanish GPA of 3.25. Students will complete seven hours of honors work in Spanish, including SPAN 4X96\* Honors Tutorial and SPAN 4X97\* Honors Thesis.

### Theatre:

Admission requires completion of at least 60 hours of college work, including THRE 2320, 2330, 2340, 3320, 3344, 3345, and one of the following: THRE 3350, 3365. Students must have a Theatre and overall GPA of 3.25, and will complete seven hours of honors work in Theatre, including an honors tutorial and the senior thesis.

## McMURRY-DYESS AIR FORCE BASE PROGRAM

*Dr. Rosemary Kovach Wallace, McMurry-Dyess Air Force Base Program Director*

### RESIDENT PROGRAM PURPOSE AND ADMINISTRATION

Since the fall of 1960, McMurry University has operated an on-base program of classes at Dyess Air Force Base located approximately seven miles from the main campus. The educational program provided for military personnel is designed to assure an opportunity to attend resident college classes conducted by McMurry University at Dyess Air Force Base and on the main campus. The program is suited not only to military members, but also to non-traditional and civilian students alike in that courses tend to be offered during lunch time, in the evening and/or in condensed (mini) semesters. Online courses are available through the main campus. Full semesters are offered as well. Offerings include the academic courses toward completion of the Community College of the Air Force (CCAF) associate degree and the general education courses toward the baccalaureate. In addition, various disciplines' lower and upper level courses are periodically given on base. Courses from the Business Core portion of the Bachelor of Business Administration (BBA) degree are typically available on base. McMurry professors and instructors (full time and adjunct) comprise the faculty, with each department Chair responsible for assigning faculty and overseeing individual course offerings. The Director works in liaison with the various departments, colleges, and schools of the University to ensure academic standards and procedures are maintained between campus and base. Students are eligible to take course work at either site - main campus or on base. The Director of McMurry-Dyess Air Force Base Program is responsible to the Vice President for Academic Affairs and works with others in administration. The program is administered by the Director with an office on base and at the main campus.

### ADMISSION

Regular admission procedures apply. That is, admission requirements include submission of a completed application form, requested transcripts, and possibly entrance scores. See section on Admissions and Procedures for details. With special permission, a student may take one semester as a non-degree seeking student without providing transcripts of high school or college work. Applications for non-degree seeking candidates are available from the Director of the McMurry-Dyess AFB Program in the Education Center on base. If any student desires to enroll in more coursework upon completion of one semester at McMurry, he or she must meet the requirements of regular admission, including the submission of all requested transcripts. Credit for courses taken at McMurry after completion of one semester at McMurry cannot be granted until the required transcripts and/or entrance exam scores are received and processed by the Admissions and Registrar offices at McMurry. Military service school courses are evaluated and may be accepted for credit by McMurry University according to the recommendations of the American Council of Education's Guide to the Evaluation of Educational Experiences in the Armed Services (ACE Evaluation Guide), current edition. Anyone in the military services may request an unofficial evaluation of service credits from the Director. The Registrar will determine the applicability of the credit toward a degree program at McMurry University. Credit will be awarded upon successful completion of appropriate CLEP or subject examinations.

Any credits that are to be awarded by evaluation, CLEP, or examination will not be officially recognized by McMurry University until a minimum of 12 semester hours in residence at the main campus or McMurry-Dyess Air Force Base Program have been successfully completed. Requirements for the baccalaureate degree may not be met exclusively by the application of credits earned in this manner.

### ACADEMIC/TUITION DEPLOYMENT POLICIES

McMurry is proud of its over half century partnership with Dyess Air Force Base. Through the years, a scholarship has been awarded to active duty members to assist with the cost of higher education. Military members attending college classes have, as their first priority, military responsibilities. These may include a short tour of duty (TDY), an unplanned deployment, or a transfer/change of station (PCS) before the semester ends. In recognition of this, below are policies which guide the University and the Dyess AFB Education Center when these duties interface with coursework. Military members, as students, are encouraged to identify themselves to the instructors on the first day of class and explain that there may be times that require their absence. This is particularly important if students know in advance of an upcoming military commitment. This gives both the instructor and student the opportunity to "work something out" if possible. Members who need to be out of classroom for a week or more are encouraged to speak with the instructors to make up the coursework. At times it may be feasible to do assignments in advance.

When a longer TDY or deployment is involved, the preferred choice is to finish the course, if at all possible. The logistics are between the instructor and student, and in some cases, involve the Director of the Program and/or a distant Education Center. Email, faxes, internet connection, mail to a Test Proctor, and the like are ways in which the coursework can be completed. Incomplete grades may be issued with the understanding that the remaining requirements be completed upon return. (McMurry University permits an incomplete grade be changed within a month or extended by instructor. The Education Center allows an incomplete grade for a year.) When it is not feasible to continue or complete the course before departure, the aim is to preserve the grade point average (GPA) and to rectify any monetary issues. Both of these matters can become problematic if proper procedures are not followed.

Established dates for dropping a class for the semester are listed in the current catalog and are followed accordingly. These include the grade assignment of a Withdraw (W), Withdraw Passing (WP), and Withdraw Failing (WF). Also listed in the current catalog are the Withdrawal from the University and Refund Policies which are used as the guideline for tuition reimbursement. A copy of orders, if possible, and/or a memo signed by

the First Sergeant or Commanding Officer citing the need for the withdrawal is required along with the correct form (drop or withdrawal) in order to be processed. The Program Director is the first point of contact, being most familiar with the policies. The Registrar is contacted in the absence of the Director. Once these procedures are followed, there should be no problem with the grade point average and the tuition reimbursement. McMurry University is grateful for our military students' service and is committed to assisting them in their academic endeavors.

### TUITION ASSISTANCE PROGRAM

Tuition for active military personnel enrolled under the Armed Forces Tuition Assistance program will be as published in the Financial Information section of this catalog. Each student eligible for and utilizing tuition assistance (TA) from any of the military forces must submit an Air Force form 1227 or its equivalent form with each application for enrollment. TA Funds for eligible recipients are not released until 30 days prior to start date of classes. Students withdrawing from a class must secure an honorable dismissal from the Director of the McMurry-Dyess AFB Program before any refunds or adjustments can be made. No refunds are made to students who are dismissed from the University through disciplinary action. Fees other than tuition are non-refundable. The University refunds all tuition costs actually paid by the individual upon receipt of orders for permanent change of station provided he or she is attending under the Air Force Tuition Assistance program for that semester.

### SPECIAL MILITARY RATE FOR ACTIVE DUTY MEMBERS USING TUITION ASSISTANCE (TA). See the Financial Assistance section of current catalog.

### ATTENDANCE POLICIES

Normal attendance policies apply – please see Class Attendance section of this catalog. Absences should be kept to an absolute minimum. When unavoidable absences occur, particularly when related to military duties, it is the responsibility of the student to arrange for make-up work and communicate circumstances to faculty. The Director should be contacted if there are any difficulties. Faculty are requested to be cooperative and understanding in such situations.

**Emergency Deployment** - see section on Academic Programs/Withdrawal process from the University.

### LIBRARY

If requested by faculty, reference material may be placed on reserve in the Base Library for use by enrolled military personnel. The campus Library is also available to McMurry-Dyess students. An enrolled student is encouraged to obtain an official university identification card for use in the Library, Academic Enrichment Center (AEC), and for cultural, athletic events, and various other campus facilities, and services.

### SERVICEMEMBERS OPPORTUNITY COLLEGE

McMurry University has been designated as a Servicemembers Opportunity College (SOC) by the American Association of State Colleges and Universities. This program has many advantages for those on active duty/no longer on active duty, and for family members of military personnel. In order to qualify for consideration, a minimum of 30 credit hours in residence with McMurry must be met. It allows maximum flexibility in acquiring credit toward a degree and is designed to fit the educational needs of military personnel. In brief, students who are eligible to participate will be allowed to take courses at other schools in areas to which they have been transferred to complete degree requirements at McMurry. Details regarding this program may be obtained from the Director, McMurry-Dyess Air Force Base Program and/or the Registrar. The program itself is administered through the Registrar of McMurry University.

### BLUE STREAK

The Blue Streak program is designed to assist active duty members to complete the general education courses component of Community College of the Air Force (CCAF) quickly. The five to seven academic general education courses are offered on base in an abbreviated format (either 5<sup>1/2</sup> or 8 weeks) each full semester (Fall, Spring). A few classes are offered during the summer sessions.

Classes (3 credit hours) which satisfy CCAF General Education requirements include:

- **Oral Communication**
- **Written Communication**
- **Mathematics**
- **Social Science**
- **Humanities**
- **Management**

By offering the required classes each semester, a student can register at any point and take what is needed to complete the degree. To make the admission process easier students are designated as NON-DEGREE STUDENTS which allows them to take only the above classes. No school transcripts or test scores are required under this category. (Should a student choose to take additional coursework with McMurry University, formal admission procedures apply.)

Tuition Assistance (TA) will cover the tuition of the class. The student is responsible for the cost of the textbooks and supplies. The McMurry-Dyess AFB Program Director administers the program.

## Veterans Administration Programs

McMurry University is approved to offer assistance to those students using the benefits of the Veterans Administration for educational purposes. All students using these benefits must contact the Veterans Certifying Official in the Registrar's Office on the campus of McMurry University and provide the appropriate documentation to be certified for benefits.

All students using VA benefits must complete an application for admission as a degree seeking student and are subject to application requirements as stated in the "Steps for Admission" section of this catalog. No student will be certified for benefits until all required documents are received by the Veterans Advisor. When a student fails to maintain prescribed standards of progress, the VA will be informed so that benefit payments can be discontinued in accordance with the law. Please refer to the "Minimum Academic Standards" section which follows. Regular class attendance is mandatory according to regulations specified by McMurry University and the Veterans Administration. Any student using VA benefits who has excessive absences will be dropped from the class. This action will be subsequently reported to the Veterans Administration.

Tutorial assistance is also available through the Veterans administration. For information, please contact the Veterans Advisor. Each individual attending McMurry University using his/her benefits is responsible for payment of tuition to McMurry University regardless of when or how he/she is paid by the Veterans Administration. For regulations concerning payment of accounts, please refer to the Payment of Accounts section. Students using VA benefits are subject to any disciplinary action outlined in the catalog.

Veterans receiving benefits under the Vocational Rehabilitation Program will need to have consulted with a vocational rehabilitation specialist employed by the Veterans Administration and have education approval prior to certification for benefits.

### Yellow Ribbon Program

McMurry University is participating in the Yellow Ribbon Program, which is available to all Post 9/11 GI Bill recipients who are eligible at the 100% level.

### Academic Standards for Students Receiving VA Benefits

A student who is receiving VA educational benefits must maintain a cumulative grade point average of 2.00 to be considered making satisfactory progress. Veterans will be placed on academic probation or suspension according to the policy stated in this catalog.

## Intercollege Enrollment

A student enrolled at McMurry University may also enroll in courses at either Abilene Christian University or Hardin-Simmons University for the purpose of alleviating schedule conflicts. Courses taken through intercollege enrollment count toward degree requirements provided approval has been secured in advance from the student's academic advisor, Dean of School, Registrar's Office, and Business Office. Courses taken through intercollege enrollment are considered a part of a regular semester's work, and grades are averaged with courses taken at McMurry. Courses taken through intercollege enrollment are included in calculating eligibility for the Dean's List and the Dean's Honor Roll, as well as probation and suspension status. Students who enroll in the intercollege program assume responsibility for the charges incurred at participating institutions. Federal financial aid regulations dictate that no more than one-fourth of hours attempted may be completed at other than the home institution.

## Study Abroad

Study abroad offers a direct and exciting means to learn about other societies, cultures, and landscapes, both physical and spiritual. McMurry University regularly offers a variety of courses that provide study abroad experiences. Financial aid is available for those who are eligible. For information on additional study abroad opportunities contact the Registrar.

## May Term

May Term at McMurry University, an academic term clearly distinguished from its fall and spring semesters as well as from its two summer sessions, is equal in importance though it differs in format from those regular semesters. During May Term's three week time frame, students enroll in a maximum of four semester hours which enables them to heighten the learning experience. In addition, May Term provides opportunities for students to supplement, extend, and enhance their educational life in a manner unavailable during the traditional academic year. Since students and instructors engage in fresh, stimulating, yet substantive courses, May Term becomes a welcome change of pace for both—one which fosters academic discipline marked by an intensity of focus, depth, and an exclusivity of attention on a single area—subject, topic, project, or course.

More specifically, May Term:

- » Affords a depth of inquiry and a freedom of method not always present in the established curriculum;
- » provides broader and deeper educational benefits through educational experiences both inside and outside the geographic boundaries of the McMurry campus;
- » Promotes scholarship in areas of special interest;
- » Permits increased student initiative, self-reliance, and responsibility for planning and pursuing each individual's educational commitment;

# DEPARTMENTS OF INSTRUCTION

## DEPARTMENT OF ART

*Professor Walker-Millar*  
*Assistant Professor Oiler*  
*Instructors Nichols, Oiler, Welborn*

### **Mission and Goals:**

The successful McMurry University student who studies art develops conceptual and technical skills of artistic expression, creative problem-solving, artistic appreciation and historical perspectives. In the department's art production-oriented program, the student studies many different traditions of art making. The successful art student fully participates in classes, assignments, critiques and exhibitions resulting in a comprehensive knowledge of design, art media, expressive possibilities, creative solutions and professional practices.

A broad background of knowledge in the art forms of Western Civilization and non-European cultures as it relates to pluralistic contemporary world to enhance the education of art majors and other interested students. Students study art in the classroom and then examine it firsthand through field trips to galleries and museums; they are also afforded opportunities to study abroad. The successful senior student develops a resume/portfolio for campus wide presentation and in preparation for post-graduation endeavors.

The Bachelors of Fine Arts (BFA) student concentrates in multimedia and graphic design, or studio art. The BFA studio art graduate who excels attends graduate school or pursues a career in graphic design, illustration, museum education, art galleries, art education or establish his or her own teaching or production studio.

The Bachelors of Art (BA) degree with a major in studio art is designed for students who wish to obtain a liberal arts degree with a major in studio art, multimedia and graphic design or all level art education; this degree requires a minor.

### **Special Programs and Opportunities:**

*Awards.* Entering freshmen art students may apply for the Perry Bentley Art Scholarship in late February. Transfer students and current art majors may apply for other art scholarships in the spring. Recognition awards are presented to outstanding art students annually. The spring juried annual student art competition acknowledges artistic achievement. Students may apply in the spring for the work apprentice programs and studio space. Faculty assigns apprentices and studios based on productivity, grades, reliability, and participation in the art department.

*Galleries.* McMurry University's **Amy Graves Ryan Fine Arts Gallery** has an active exhibition schedule with area and national art shows, as well as student and faculty exhibits. BFA art majors have a senior exhibition of their work as part of their degree requirements. BA majors will have a group senior exhibition. Through the Brown Bag artists lecture series and artists workshops, students meet and study with exhibiting artists. The **Gypsy Ted Gallery** offers student exhibition and studio space; and offers shows to select area artists. This gallery is run by a student director.

*Travel courses in Art.* The Department of Art endeavors to offer one travel course annually. Classes travel to regionally, nationally and internationally significant art exhibitions and archeological sites related to students' course of study.

*Art Honor Society.* Art students who have completed 12 semester hours and have a 3.0 average or above in art are eligible to be nominated by faculty to the Epsilon Theta Chapter of Kappa Pi International Collegiate Art Honorary Fraternity. Kappa Pi sponsors Homecoming and Christmas art sales, service projects and art related, educational and social activities.

*Internships in Art.* Art internships for junior and senior art majors, which occur in ART 3390, ART 4390, and MMA 4388, give students meaningful practical experience by working in a gallery, museum or commercial setting to see

## Art

how the theoretical concepts of art are put into practice. Students have interned at the Abilene Reporter News, Center of Contemporary Art, Zachry Associates, Grace Museum, National Center for Children's Illustrated Literature, and other art career related businesses.

*Departmental Honors.* Please see the description of the Honors Program under the Special Program section earlier in the catalog.

*Facilities.* The Art Department has a superior ceramic facility. The Noel and Anita Chapin building built in 2000, houses 14 potters wheels, a slab roller, four electric kilns, three gas kilns (Raku and highfire), clay mixing room, faculty studios, glaze mixing room, and large work spaces. The computer lab has 14 Macintosh computers. The painting, drawing and design rooms have northern lighting. There are two photography darkrooms and a jewelry design lab.

### **Courses Taught in the Art Department:**

ART 1300	Exploring the Visual Arts
ART 1310	Element of Design
ART 1313	Basic Pottery
ART 2300	Fundamentals of Drawing
ART 2301	Art History I
ART 2302	Art History II
ART 2304	Creative Drawing
ART 2310	Painting I
ART 2313	Techniques in Wheel Throwing
ART 2314	Techniques in Handbuilding
ART 2321	Three-Dimensional Design
ART 2323	Fundamentals of Photography
ART 3310	Life Drawing I
ART 3315	Ceramic Sculpture
ART 3320	Life Drawing II
ART 3321	Painting II; Still Life Painting
ART 3322	Modern Art History
ART 3323	Non-European Art
ART 3328	Advanced Photography
ART 3330	Computer Graphics Design
ART 3334	Desktop Publishing
ART 3336	Special Topics in Graphic Design
ART 3340	Painting III Advanced Painting
ART 3360	Secondary School Art
ART 3370	Elementary School Art
ART 3390	Gallery Practices
ART 3391	Jewelry Design
ART 4313	Clay and Glaze Calculation and Kilnbuilding
ART 4335	Painting IV Special Topics
ART 4390	Professional Practices/Internship
ART 4X95	Independent Studies
ART 4X96*	Honors Tutorial
ART 4X97*	Honors Thesis
ART 4X99	Special Topics
MMA 2310	Introduction to Multimedia Applications
MMA 2340	Introduction to Digital Animation
MMA 3310	Digital Video Capture and Editing
MMA 3320	HTML and Web Design
MMA 4388	Internship in Multimedia Applications



## BACHELOR OF ARTS STUDIO ART

### A MINOR IS REQUIRED FOR THE BACHELOR OF ARTS DEGREE IN STUDIO ART

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>MAJOR IN STUDIO ART</b> (3 hours may also meet general education requirements)	
<u>STUDIO ART</u>	HOURS
ART 1300	3
ART 1310	3
ART 1313	3
ART 2310	3
ART 3330	3
ART 4390	3
<b>Select 3 hrs from</b> 2300, 2304	3
<b>Select 6 hrs from</b> ART 2301, 2302, 3322, 3323	6
<b>Select 12 hrs (9 hrs or more advanced)</b> Students are highly encouraged to take advanced courses in <b>one</b> media. (Painting, Ceramics, Computer Graphics, or Photography)	12
<b>TOTAL HOURS</b>	<b>39</b>

#### **FOREIGN LANGUAGE REQUIREMENT:**

This major requires 1 year of foreign language at the college level, or demonstration of proficiency by taking a CLEP exam or a foreign language proficiency exam. The University foreign language requirement is described on page 34 of the catalog.



## BACHELOR OF ARTS ART EDUCATION

**A MINOR IN CURRICULUM AND INSTRUCTION IS REQUIRED FOR THE BACHELOR OF ARTS DEGREE IN ART EDUCATION**  
All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * *(for students age 30 or above, or medical exemption)	3     6   2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>MAJOR IN ART EDUCATION</b> (3 hours may also meet general education requirements)		
<u>ART EDUCATION</u>	HOURS	COMPLETED
ART 1300	3	
ART 1310	3	
ART 1313	3	
ART 2300	3	
ART 2301	3	
ART 2302	3	
ART 2310	3	
ART 4390	3	
ART 3370	3	
ART 3360	3	
<b>Select 3 hrs from</b> ART 3322, 3323, 3330, MMA 2310	3	
<b>Select 3 hrs from</b> ART 2321, 2323, 3391	3	
<b>Select 9 hrs from</b> Art Electives (6 hours must be advanced)	9	
<b>TOTAL HOURS</b>	<b>45</b>	

<b>MINOR IN CURRICULUM AND INSTRUCTION (GRADES 8-12)</b>	
<u>COURSE</u>	HOURS
CI 2110	1
<i>The following CI courses listed in this box require admission to the Teacher Education Program.</i>	
CI 3301	3
CI 3302	3
CI 4324	3
CI 4325	3
CI 4125	1
CI 4198	1
CI 4602	6
<b>TOTAL HOURS</b>	<b>21</b>

<p><b>FOREIGN LANGUAGE REQUIREMENT:</b> This major requires 1 year of foreign language at the college level, or demonstration of proficiency by taking a CLEP exam or a foreign language proficiency exam. The University foreign language requirement is described on page 34 of the catalog.</p>
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## BACHELOR OF FINE ARTS MULTIMEDIA AND GRAPHIC DESIGN

### THIS DEGREE INCLUDES A MINOR IN ARTS ADMINISTRATION

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS	<b>MAJOR IN FINE ARTS MULTIMEDIA AND GRAPHIC DESIGN</b> (3 hours may also meet general education requirements)	
		<u>FINE ARTS MULTIMEDIA AND GRAPHIC DESIGN</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3	ART 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3	ART 1310	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3	ART 2300	3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3	ART 2301	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3	ART 2302	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3	ART 2304	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3	ART 2310	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * *(for students age 30 or above, or medical exemption)	3           2	ART 2323	3
<b>NATURAL SCIENCE (4 hrs) (as required by major)</b> Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4	ART 3300	3
<b>TOTAL HOURS</b>	<b>39</b>	MMA 2310	3
		ART 3310	3
		ART 3322	3
		ART 3323	3
		ART 3390	3
		<b>Select 3 hrs from</b> ART 4390, MMA 4388	3
		<b>Select 12 hours (9 hrs or more advanced)</b> ART 3328, 3334, 3336 MMA 2340, 3320, MMA/THRE 3310	12
		<b>Select 3 hrs from</b> ART 3360, 3370	3
		<b>Select 3 hrs from</b> ENG 3385, 4374, 4375	3
		<b>Select 3 hrs from</b> MGMT 3350, BA 1310, MKTG 3370, THRE 3325	3
		<b>TOTAL HOURS</b>	<b>66</b>

#### **FOREIGN LANGUAGE REQUIREMENT:**

This major requires 1 year of foreign language at the college level, or demonstration of proficiency by taking a CLEP exam or a foreign language proficiency exam. The University foreign language requirement is described on page 34 of the catalog.

## ART DEPARTMENT MINORS

<b>MINOR IN ART</b>	
(Not available for Studio Art or Graphic Design majors)	
<u>COURSE</u>	<u>HOURS</u>
ART 1300	3
ART 1310	3
ART 1313	3
ART 2300	3
<b>Select 9 hrs from</b> ART Electives (6 hrs or more advanced)	9
<b>TOTAL HOURS</b>	<b>21</b>

<b>MINOR IN MULTIMEDIA APPLICATIONS</b>	
(Not available for Studio Art or Graphic Design majors)	
(Not available for Technology Applications Teaching Field)	
<u>COURSE</u>	<u>HOURS</u>
ART 1310	3
ART 3330 (or other Graphic Design course)	3
MMA 2310	3
MMA 2340	3
MMA 3310	3
MMA 3320	3
MMA 4388	3
<b>TOTAL HOURS</b>	<b>21</b>

<b>MINOR IN ARTS ADMINISTRATION</b>	
(Not available for Studio Art or Graphic Design majors)	
<u>COURSE</u>	<u>HOURS</u>
ART 3390	3
<b>Select 6 hrs from</b> ART 2301, 2302, 3322, 3323	6
<b>Select 3 hrs from</b> ART 3330, MMA 2310, 3310	3
<b>Select 3 hrs from</b> ART 3360, 3370	3
<b>Select 3 hrs from</b> ENG 3385, 4374, 4375	3
<b>Select 3 hrs from</b> MGMT 3350, BA 1310, MKTG 3370, THRE 3325	3
<b>TOTAL HOURS</b>	<b>21</b>

## DEPARTMENT OF BIOLOGY

Professor Benoit Department Chair

Professors Wilson

Associate Professor Brant, Saghatelian

Assistant Professors Brosius, Sharp

Instructor Banks

**The Department of Biology offers majors focusing on the study of life. Each program offered consists of biology coursework and supporting courses from chemistry, physics, and mathematics. Majors offered are the BS in Biology, BS in Life Sciences, and the BS in Biomedical Science. Though the majors differ in their focus and content, each supports the mission and goals for the department.**

**Additionally, the department contributes to the general education of McMurry students and provides service courses for other programs. In these courses, the Department of Biology demonstrates its commitment to high quality life science instruction for all students.**

**The department also is the administrative unit overseeing the program and courses in Geography and Geosciences. The descriptions for these courses are located on page 95 of the catalog. These courses are offered in support of the general education requirements and of other programs in the curriculum.**

### Department of Biology Mission and Goals:

The Mission and Goals of the Department of Biology are to produce graduates who:

1. understand fundamental biological principles and processes;
2. possess the technical and communication skills needed for successful;
3. are equipped through experiences for lives of leadership and success.

The department's Mission and Goals fully support and agree with the Mission and Institutional Goals of McMurry University as listed below.

- Students acquire an education shaped by Christian values\*;
- Students are equipped for successful careers and post-graduate education;
- Students acquire an enthusiasm for lifelong learning through expanded intellectual and cultural experiences.

*\*Christian values are reflected in the manner in which courses are taught, in support of the McMurry Mission Statement where it is stated that "...truth, in a universe created by God, is nothing to fear. We honor the Creator when we use our minds for their intended purpose of learning in ways unhindered by prejudice or ignorance."*

The Department of Biology also supports McMurry's institutional goal that "The institution will engage in an ongoing pursuit of excellence in curricula, programs, and policies." The Department engages in ongoing efforts to make sure its students are learning and that its programs are performing to the highest standards of excellence by a) conducting rigorous, annual assessments of student learning and b) implementing evidence-based improvements to its programs when needed. All faculty in the department contribute to these efforts for the benefit of its students and majors.

### Programs of the Department of Biology

#### Bachelor of Science in Biology Degree

The B.S. in Biology major is the broad-based, general degree that provides the knowledge and skills for understanding of the broad and diverse world of living organisms, ecology, and the environment for those students seeking careers or further education in a life science field. All graduates complete an internship or conduct original research as part of their education.

#### Bachelor of Science in Biomedical Science Degree

The B.S. in Biomedical Science degree provides a deep and practical knowledge of contemporary biology for students interested in careers as researchers, health professionals, science educators, and support per

sonnel. The focus is on molecules, cells, microbes, and human biology and health. The curriculum is research-rich and skills-laden. All graduates complete an internship or conduct original research as part of their education.

#### Bachelor of Science in Life Sciences Degree

The B.S. in Life Sciences degree provides a broad exposure to life in all its forms for students with an interest in all facets of biology. The curriculum focuses on all topics central to teacher preparation in the state of Texas with strong human, animal, plant, microbe, molecular, genetic, physiology, and ecology components. This is the preferred degree for future biology teachers when obtained in conjunction with a minor in Curriculum & Instruction. All graduates complete an internship or conduct original research as part of their education.

#### Special Programs and Opportunities:

*Pi Beta Chapter* of Beta Beta Beta Biological Honor Society. The purposes of this organization are to promote scholarship, biological research, and dissemination of scientific knowledge.

*Departmental Honors.* Please see the description of the Honors Program under the Special Program section earlier in the catalog.

*Departmental Awards.* Each spring, awards are presented to the outstanding freshman, sophomore, junior, and senior Biology, Biomedical Science, and Life Sciences majors.

*Travel courses in Biology.* The Department attempts to offer a travel course (BIOL 4340) or travel opportunity each year. Additionally, many field biology courses feature field trips.

*Undergraduate Research.* Biology, Biomedical Science, and Life Sciences majors often participate in research within their normal courses. Additional involvement in research is available for students wanting to join the ongoing work of faculty. Summer research is also encouraged either at McMurry or other institutions.

#### Courses Taught in the Biology Department:

BIOL 1301	Biology of Unicellular Organisms
BIOL 1401	Principles of Biology
BIOL 1402	Biology of Plants
BIOL 1403	Biology of Animals
BIOL 2110	Environmental Seminar
BIOL 2401	Anatomy and Physiology I
BIOL 2402	Anatomy and Physiology II
BIOL 3403	Foundations of Microbiology
BIOL 3440	Comparative Anatomy
BIOL 3460	Genetics
BIOL 4101	Biological Literature
BIOL 4201	BIOL Capstone Experience
BIOL 4340	Biology Field Studies
BIOL 4360	Evolution
BIOL 4430	Ecology
BIOL 4450	Advanced Botany
BIOL 4X91	Advanced Topics in Botany
BIOL 4X92	Advanced Topics in Zoology
BIOL 4X95	Independent Studies
BIOL 4X96*	Biology Honors Tutorial
BIOL 4X97*	Biology Honors Research
BIOL XX99	Special Topics

BIMS 1101	Biology of Unicellular Organisms Lab
BIMS 1300	Introduction to Scientific Research
BIMS 3410	Microbiology
BIMS 3430	Human Physiology
BIMS 4000	Junior Exam
BIMS 4120	Molecular and Cellular Biology Laboratory
BIMS 4201	BIMS Capstone Experience
BIMS 4320	Molecular and Cellular Biology
BIMS 4X91	Advanced Topics in Microbiology
BIMS 4X92	Advanced Topics in Molecular Biology and Genetics

## BACHELOR OF SCIENCE BIOLOGY

### A MINOR IS NOT REQUIRED FOR THE BACHELOR OF SCIENCE DEGREE IN BIOLOGY

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>MAJOR IN BIOLOGY</b> (4-8 hours may also meet general education requirements)	
<u>BIOLOGY</u>	HOURS
BIOL 1301	3
BIOL 1402	4
BIOL 1403	4
BIOL 2110	1
BIOL 3440	4
BIOL 3460	4
BIOL 4430	4
BIOL 4450	4
BIOL 4201	2
BIOL 4101	1
<b>Select 9 hrs from</b> BIOL 4340, 4360, 4X91, 4X92	9
<b>SUB TOTAL HOURS</b>	<b>40</b>
<b>SUPPORTING COURSES</b>	
CHEM 1410	4
CHEM 1420	4
PHYS 1410	4
GEOS 1410	4
GEOG 3330	3
<b>Select 3-4 hrs from</b> MATH 2421, 3351	3-4
<b>Select 8 hrs from</b> CHEM 3410 AND CHEM 3420 OR CHEM 3440, GEOS 3210, GEOS 3220	4 4
<b>TOTAL HOURS</b>	<b>70-71</b>

#### **FOREIGN LANGUAGE REQUIREMENT:**

8 hours in a single foreign language will be required unless two years of a single foreign language were completed in high school or the student graduated from high school prior to 1993. The University foreign language requirement is described on page 34 of the catalog.



## BACHELOR OF SCIENCE BIOMEDICAL SCIENCE

### A MINOR IS NOT REQUIRED FOR THE BACHELOR OF SCIENCE DEGREE IN BIOMEDICAL SCIENCE

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * *(for students age 30 or above, or medical exemption)	3           6           2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>MAJOR IN BIOMEDICAL SCIENCE</b> (3-11 hours may also meet general education requirements)	
<u>BIOMEDICAL SCIENCE</u>	HOURS
BIMS 1300	3
BIOL 1301	3
BIMS 1101	1
BIMS 3410	4
BIMS 3430	4
BIOL 3460	4
BIMS 4000	0
BIMS 4320	3
BIMS 4120	1
BIMS 4201	2
BIOL 4101	1
<b>Select 5 hrs from</b> BIMS 4X91, 4X92	5
<b>Select 9 hrs from</b> BIOL or BIMS Any advanced course, KINE 3307, CHEM 3441, 3442, PSYC 4341, NURS 3410	9
<b>SUBTOTAL HOURS</b>	<b>40</b>
<b>SUPPORTING COURSES</b>	
CHEM 1410	4
CHEM 1420	4
CHEM 3410	4
CHEM 3420	4
PHYS 1410	4
PHYS 1420	4
<b>Select 3-4 hrs from</b> MATH 2421, 3351	3-4
<b>TOTAL HOURS</b>	<b>67-68</b>

#### **FOREIGN LANGUAGE REQUIREMENT:**

8 hours in a single foreign language will be required unless two years of a single foreign language were completed in high school or the student graduated from high school prior to 1993. The University foreign language requirement is described on page 34 of the catalog.

## BACHELOR OF SCIENCE LIFE SCIENCE

**A MINOR IS REQUIRED FOR THE BACHELOR OF SCIENCE DEGREE IN LIFE SCIENCE**

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3
	6
	2
<b>NATURAL SCIENCE (4 hrs) (as required by major)</b> Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>MAJOR IN LIFE SCIENCE</b> (4-8 hours may also meet general education requirements)	
<u>LIFE SCIENCE</u>	HOURS
BIOL 1301	3
BIOL 1402	4
BIOL 1403	4
BIOL 3403	4
BIOL 3460	4
BIOL 4201	2
BIOL 4101	1
BIOL 4430	4
<b>Select 8 hrs from</b> BIOL 2401 and BIOL 2402 OR BIOL 3440 and BIOL 3430	8
<b>Select 6 hrs from</b> BIOL Advanced Electives	6
<b>SUBTOTAL HOURS</b>	<b>40</b>
<b>SUPPORTING COURSES</b>	
<b>Select 8 hrs from</b> CHEM 1405 and CHEM 1406 OR CHEM 1410 and CHEM 1420	8
<b>Select 4 hrs from</b> PHYS 1400, 1410	4
<b>Select 3-4 hrs from</b> MATH 2421, 3351	3-4
<b>TOTAL HOURS</b>	<b>55-56</b>

**FOREIGN LANGUAGE REQUIREMENT:**  
8 hours in a single foreign language will be required unless two years of a single foreign language were completed in high school or the student graduated from high school prior to 1993. The University foreign language requirement is described on page 34 of the catalog.

## BACHELOR OF SCIENCE LIFE SCIENCE GRADES 8-12

A MINOR IN CURRICULUM AND INSTRUCTION IS REQUIRED FOR TEACHER CERTIFICATION IN LIFE SCIENCE GRADES 8-12  
All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>MAJOR IN LIFE SCIENCE GRADES 8-12</b> (4-8 hours may also meet general education requirements)	
<u>LIFE SCIENCE GRADES 8-12</u>	HOURS
BIOL 1301	3
BIOL 1402	4
BIOL 1403	4
BIOL 3403	4
BIOL 3460	4
BIOL 4201	2
BIOL 4101	1
BIOL 4430	4
<b>Select 8 hrs from</b> BIOL 2401 and BIOL 2402 OR BIOL 3440 and BIOL 3430	8
<b>Select 6 hrs from</b> BIOL Advanced Electives	6
<b>SUBTOTAL HOURS</b>	<b>40</b>
<b>SUPPORTING COURSES</b>	
<b>Select 8 hrs from</b> CHEM 1405 and CHEM 1406 OR CHEM 1410 and CHEM 1420	8
<b>Select 4 hrs from</b> PHYS 1400, 1410	4
<b>Select 3-4 hrs from</b> MATH 2421, 3351	3-4
<b>TOTAL HOURS</b>	<b>55-56</b>

**FOREIGN LANGUAGE REQUIREMENT:**

8 hours in a single foreign language will be required unless two years of a single foreign language were completed in high school or the student graduated from high school prior to 1993. The University foreign language requirement is described on page 34 of the catalog.

<b>CURRICULUM AND INSTRUCTION (GRADES 8-12)</b>	
<u>COURSE</u>	HOURS
CI 2110	1
<i>The following CI courses in this box require admission to the Teacher Education Program.</i>	
CI 3301	3
CI 3302	3
CI 4324	3
CI 4325	3
CI 4125	1
CI 4198	1
CI 4602	6
<b>TOTAL HOURS</b>	<b>21</b>

## BIOLOGY DEPARTMENT MINORS

<b>MINOR IN BIOLOGY</b> (Not available for Biology majors)	
<b><u>COURSE</u></b>	<b>HOURS</b>
BIOL 1301	3
BIOL 1402	4
BIOL 1403	4
<b>Select 8 hrs from</b> Advanced Biology or Biomedical Science Electives	8
<b>TOTAL HOURS</b>	<b>19</b>

<b>ALLIED HEALTH</b>	
<b><u>COURSE</u></b>	<b>HOURS</b>
BIOL 2401	4
BIOL 2402	4
<b>Select 8 hrs from</b> (CHEM 1405 & 1406) or (CHEM 1410 & 1420)	8
<b>Select 6 hrs from</b> BIOL 3403 BIOL 3430 KINE 3307 KINE 3321 KINE 3331 NURS 3410 MATH 3351	6
<b>TOTAL HOURS</b>	<b>22</b>

## SCHOOL OF BUSINESS

Associate Professor Long, Dean of School of Business

Professor Lapoint

Associate Professors, Kuzma, Richardson

Assistant Professors Fish, Liprie-Spence

Visiting Assistant Professor Wick

Instructors Reynolds, Starbuck, Watson

### McMurry University School of Business Mission Statement

The Mission and Goals of the School of Business are to produce graduates who:

1. have a foundation knowledge of core business disciplines;
2. have the requisite communication and technical skills for success in their area of business concentration
3. are well-prepared for post-graduate study and employment in a changing business environment.

The Mission and Goals of the School of Business support and agree with the following Institutional Goals of McMurry University:

- Students acquire an education shaped by Christian values;
- Students acquire the knowledge and skills necessary for success in the professional workplace or post-baccalaureate education
- Students acquire an enthusiasm for lifelong learning through expanded intellectual and cultural horizons.

The School of Business offers courses leading to the Bachelor of Business Administration degree and the Bachelor of Science in Accounting degree. The student who is a candidate for the Bachelor of Business Administration degree may concentrate his/her work in one or more of the following seven areas: Accounting, Computer Information Systems, Finance, General Business, Heritage and Cultural Tourism, Management, and Marketing. Students may choose to complete a dual concentration in the Bachelor of Business Administration degree. Courses completed for credit in one concentration may not be used for credit in a second concentration. With the exception of the Heritage and Cultural Tourism concentration, a minor is not required of the candidate for the Bachelor of Business Administration degree or the Bachelor of Science in Accounting degree. The Bachelor of Science in Multidisciplinary Studies degree with teaching field in Business Education is also offered, in cooperation with the School of Education.

For the Bachelor of Business Administration degree, the student must complete the following:

1. General Education Requirements. (To include a minimum of three hours of mathematics with a grade of "C-" or better, and English 1310 and 1320 with a grade of "C-" or better.)
2. The Business Core Course Requirement. (No grade of less than "C" is acceptable in the business core requirements.)
3. An area of concentration within the business field. (No grade of less than "C" is acceptable in the area of concentration. No course may be counted in both the area of concentration and the Business Core Course Requirement.)
4. Sufficient hours of electives to meet all University requirements.

In addition to the BBA the student may choose an honors curriculum. Admission requires completion of 60 hours of college credit and of a GPA of at least 3.5 in ACCT 2310; ECON 2310, 2320; and BA 1310, with a GPA of 3.25 in all other college work. Students must complete seven hours of honors courses in Business, including BA 4X96\* (Honors Tutorial) and BA 4X97\* (Honors Thesis). Departmental honors will be obtained in the student's area of business concentration.

### Business Honors Courses (BA)

#### 4X96\* Honors Tutorial (Variable Credit)

An in-depth study, which may be related to an upper-level business course, taken with concurrent enrollment, or after successful completion of the course. The Honors Tutorial may be repeated for credit, not to exceed 4 hours of combined credit. Honors students should complete the Honors Tutorial the semester prior to the Honors Thesis, BA 4X97.

#### 4X97\* Honors Thesis (Variable Credit)

This course represents the senior project for honors students in the School of Business. Following completion of the Honors Tutorial, the student will design, execute and present orally, and in writing, a research project which explores an issue or concept in Business.

#### \*Honors Course

In all concentration areas in the Bachelor of Business Administration degree program, a minimum of three hours of mathematics, with a grade of "C-" or better is required. Students may meet this requirement by completing Math 1311, or any other three hours of course work in the Department of Mathematics, excluding Math 1315, approved by the Dean of the School of Business. The student is urged to fulfill this requirement as early in the first two years of study as possible.

**NOTE: Prior to enrollment in any 4000 level course offered in the School of Business, the student must have completed all 1000, 2000, and 3000 level courses listed in the Business Core Course Requirement. Course prerequisites may be waived by permission of the Instructor and the Dean of the School of Business.**

### RECOMMENDED ELECTIVES FROM THE SCHOOL OF BUSINESS

Students with majors and minors outside the School of Business may wish to take business area courses as electives. The following courses are of general interest and have no prerequisites: ACCT 2310, BA 1310, 3350, 4370, 4385, ECON 2310, 2320, FIN 3330, MGMT 3310, MKTG 3370.

### ONLINE-COURSES

Some courses in the School of Business may be offered in an online format. Courses may also be available on an alternative schedule, such as a mini term. Students should consult the appropriate Schedule Bulletin to determine if courses are being offered online or on alternative schedules, and for other course requirements.

### SCHOOL OF BUSINESS INTERNSHIP PROGRAM

Accounting	4X88	Accounting Internship
CIS	4X88	Computer Information Systems Internship
Finance	4X88	Finance Internship
Management	4X88	Management Internship
Marketing	4X88	Marketing Internship

#### 4X88

**Internship**(variable credit) A pre-approved and supervised work experience designed to supplement academic training. Credit may be granted for one, two, or three semester hours. A student completing a dual concentration could be eligible for an internship in each concentration; however, a separate internship work experience would be required for each concentration. Interested students should discuss this course with the Director of Business Internships. (Spring, Fall)

#### TOUR 4388

**Heritage Tourism Internship (3-0)** Required for Heritage and Cultural Tourism concentration. The course will focus on the broad theories and practices of the heritage tourism profession. Topics will include, but are not limited to: Destination management; Destination development; Historic attraction management; Site Interpretation and development; Event management; Sustainable tourism; Regional tourism and destination marketing; and Partner marketing and sponsorships. (By arrangement)

To enroll in the Internship Program the student must be in good academic standing with the university and have completed 60 hours toward their undergraduate degree. Some positions may require specific skills and may require completion of certain courses. It should be noted that individual employers may have their own explicit requirements such as minimum GPA which is above what is required by the university, specific course work completed, and/or a classification of senior.

Academic credit is given for the internship plan of study through courses numbered 4X88 where X equals the number of credit hours taken (1, 2, or

## Business

3). The student will work with the Director of Business Internships in completing a learning contract that documents the plan of study for each individual student. Once enrolled in a 4X88 course in the appropriate concentration the student is required to work approximately 120-150 hours to receive 3 credit hours, 90-120 for two credit hours, and 60-90 for one credit hour.

Applications are available through the office of the School of Business, or the Director of Business Internships. The completed application should be delivered to the Director of Business Internships.

MKTG 3370 Principles of Marketing  
MKTG 3380 Marketing Promotions  
MKTG 4320 Marketing Channels  
MKTG 4350 Consumer Behavior  
MKTG 4370 Marketing Management  
MKTG 4380 Marketing Research  
MKTG 4X88 Marketing Internship  
MKTG 4X95 Independent Studies  
MKTG XX99 Special Topics

TOUR 3340 Heritage Tourism  
TOUR 4388 Heritage Tourism Internship

### Courses Taught in the School of Business

ACCT 2310 Financial Accounting  
ACCT 3303 Accounting Systems  
ACCT 3305 Managerial Accounting  
ACCT 3307 Fund Accounting  
ACCT 3311 Intermediate Accounting I  
ACCT 3312 Intermediate Accounting II  
ACCT 3330 Cost Accounting  
ACCT 3370 Introduction to Taxation  
ACCT 4360 Advanced Topics in Taxation  
ACCT 4365 Federal Tax Research  
ACCT 4370 Topics in Advanced Accounting  
ACCT 4371 Advanced Accounting  
ACCT 4X88 Accounting Internship  
ACCT 4390 Auditing Theory and Practice  
ACCT 4X95 Independent Studies  
ACCT XX99 Special Topics

BA 1310 Contemporary Business  
BA 3350 Entrepreneurship  
BA 3370 Business Statistics  
BA 3371 Decision Sciences for Business  
BA 4370 Business Law  
BA 4380 Commercial Law  
BA 4385 Ethics in Business and Society  
BA 4390 Strategic Management: Strategy and Decision Making  
BA 4X95 Independent Studies  
BA XX99 Special Topics

CIS 1315 Computer Fluency  
CIS 2350 Applications Programming  
CIS 3311 Database Management Systems  
CIS 3320 Internet Programming  
CIS 3380 Management Information Systems  
CIS 4350 Systems Analysis and Design  
CIS 4X88 Computer Information Systems Internship  
CIS 4X95 Independent Studies  
CIS XX99 Special Topics

ECON 2310 Principles of Macroeconomics  
ECON 2320 Principles of Microeconomics

FIN 3330 Personal Finance  
FIN 3340 Business Finance  
FIN 3350 Money and Banking  
FIN 3370 Investments  
FIN 4320 Advanced Seminar in Finance  
FIN 4340 International Financial Markets  
FIN 4345 Student Managed Investment Fund I  
FIN 4346 Student Managed Investment Fund II  
FIN 4X88 Finance Internship  
FIN 4X95 Independent Studies  
FIN XX99 Special Topics

MGMT 3310 Principles of Management  
MGMT 3370 Operations Management  
MGMT 3390 Human Resources Management  
MGMT 4310 Managing for Quality  
MGMT 4330 Organizational Behavior / Interpersonal Relations  
MGMT 4370 Marketing Management  
MGMT 4X88 Management Internship  
MGMT 4X95 Independent Studies  
MGMT XX99 Special Topics

## BACHELOR OF BUSINESS ADMINISTRATION

### A MINOR IS NOT REQUIRED FOR THE BACHELOR OF BUSINESS ADMINISTRATION DEGREE

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (4 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)**</b> Select 3 hrs from MATH 1311, 1312, 1320, 2421, 2322	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310** ENG 1320**	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320, <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 and above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<u>BUSINESS CORE</u>	HOURS
* A grade of "C" or better required for all courses in Business core	
(3 hours may also meet general education requirements)	
BA 1310	3
CIS 3380	3
ECON 2310 (Meets Gen Ed Req)	3
ECON 2320	3
ACCT 2310	3
ACCT upper level course*	3
*If conc. is Finance ACCT 3311, if Mgmt ACCT 3305	
BA 3370	3
MGMT 3310	3
MKTG 3370	3
FIN 3340	3
BA 4370	3
BA 4385	3
BA 4390	3
<b>TOTAL HOURS</b>	<b>39</b>
<b>Supporting Courses</b> CIS 1315	3
<b>SELECT ONE CONCENTRATION SEE NEXT PAGE</b>	

#### **FOREIGN LANGUAGE REQUIREMENT:**

8 hours in a single foreign language will be required unless two years of a single foreign language were completed in high school or the student graduated from high school prior to 1993. The University foreign language requirement is described on page 34 of the catalog.

**\*\*Course to be completed with a grade of C- or better**

## BUSINESS ADMINISTRATION CONCENTRATIONS

(A grade of "C" or better is required for all courses in the Business Administration Concentrations)

<u>ACCOUNTING</u>	HOURS
ACCT 3303	3
ACCT 3311	3
ACCT 3312	3
ACCT 3330	3
ACCT 3370	3
ACCT 4371	3
ACCT 4390	3
<b>Select 3 hrs from</b> ACCT 3307, 4360, 4365, 4370, 4388	<b>3</b>
<b>TOTAL HOURS</b>	<b>24</b>
BA 4380 Commercial Law is recommended. Students planning to take the CPA exam should complete at least 30 upper division hours in Accounting, and Integrated Business Writing.	

<u>COMPUTER INFORMATION SYSTEMS</u>	HOURS
CSC 1325	3
CIS 2350	3
CIS 3311	3
CIS 3320	3
CSC 3330	3
CIS 4350	3
<b>Select 3 hrs from</b> Any advanced course from CIS, CSC, IT, or ACCT 3303	<b>3</b>
<b>TOTAL HOURS</b>	<b>21</b>

<u>FINANCE</u>	HOURS
FIN 3350	3
FIN 3370	3
FIN 4340	3
ACCT 3312	3
<b>Select 3 hrs from</b> FIN 4320, 4345*	<b>3</b>
<b>Select 3 hrs from</b> BA 3371, FIN 4346*, 4388	<b>3</b>
<b>TOTAL HOURS</b>	<b>18</b>
*Enrollment in Student Managed Investment Fund courses requires permission through an application process.	

<u>GENERAL BUSINESS</u>	HOURS
<b>GENERAL BUSINESS:</b> <b>Select 18 hrs from</b> Advanced courses (3000/4000 level) offered by School of Business	18
<b>TOTAL HOURS</b>	<b>18</b>

<u>HERITAGE AND CULTURAL TOURISM</u> This concentration requires a minor in History	HOURS
MKTG 3380	3
MKTG 4350	3
MKTG 4380	3
TOUR 3340	3
TOUR 4388	3
<b>Select 3 hrs from</b> MGMT 3370, BA 3350	<b>3</b>
<b>SUBTOTAL HOURS</b>	<b>18</b>
<u>MINOR IN HISTORY</u>	
HIST 1310	3
HIST 1320	3
HIST 2310	3
HIST 2320	3
<b>Select 6 hrs from</b> Advanced HIST electives	<b>6</b>
<b>TOTAL HOURS</b>	<b>36</b>

<u>MANAGEMENT</u>	HOURS
MGMT 3370	3
MGMT 3390	3
MGMT 4310	3
MGMT 4330	3
<b>Select 6 hrs from</b> ACCT 3303, 3330, 3370 BA 3350, 3371, 4380 FIN 3*, 4* MKTG 3*, 4* MGMT4388	<b>6</b>
*Student can choose any 3000-4000 level course	
<b>TOTAL HOURS</b>	<b>18</b>

<u>MARKETING</u>	HOURS
MKTG 3380	3
MKTG 4350	3
MKTG 4380	3
<b>Select 9 hrs from</b> Any Advanced Marketing course, BA 3371, MMA 2310, 3310**, 3320** <b>Suggested prerequisites</b> **MMA 2310	<b>9</b>
<b>TOTAL HOURS</b>	<b>18</b>



## BACHELOR OF SCIENCE ACCOUNTING

### A MINOR IS NOT REQUIRED FOR THE BACHELOR OF SCIENCE DEGREE IN ACCOUNTING

The Bachelor of Science Degree in Accounting requires 150 hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (4 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)**</b> Select 3 hrs from MATH 1311, 1312, 1320, 2421, 2322	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310** ENG 1320**	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 and above, or medical exemption)	3     6   2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<u>BUSINESS CORE</u>	HOURS
<i>A grade of "C" or better is required for all courses in the Business Core</i>	
(3 hours may also meet general education requirements)	
BA 1310	3
CIS 3380	3
ECON 2310 (Meets Gen Ed Req)	3
ECON 2320	3
ACCT 2310	3
BA 3370	3
BA 3371	3
BA 33XX (Integrated Business Writing)	3
BA 4370	3
BA 4380	3
BA 4385	3
BA 4390	3
FIN 3340	3
MGMT 3310	3
MKTG 3370	3
<b>CORE HOURS</b>	<b>45</b>
<u>ACCOUNTING</u>	HOURS
<i>A grade of "C" or better is required for all courses listed below</i>	
ACCT 3303	3
ACCT 3311	3
ACCT 3312	3
ACCT 3330	3
ACCT 3370	3
ACCT 4371	3
ACCT 4390	3
<b>Select 9 hrs from</b> ACCT 3307, 4360, 4365, 4370, 4388	9
<b>SUBTOTAL HOURS</b>	<b>75</b>
<u>SUPPORTING COURSES</u>	
<b>Supporting Courses</b> CIS 1315	3
<b>Select 6 hrs from</b> FIN 3330, FIN 3370, MGMT 3370, SOC 3375	6
<b>TOTAL HOURS</b>	<b>84</b>

This degree requires 150 total hours

\*\*Course to be completed with a grade of C- or better

#### FOREIGN LANGUAGE REQUIREMENT:

8 hours in a single foreign language will be required unless two years of a single foreign language were completed in high school or the student graduated from high school prior to 1993. The University foreign language requirement is described on page 34 of the catalog.

## SCHOOL OF BUSINESS MINORS

<b>MINOR IN BUSINESS ADMINISTRATION</b>	
<b><u>COURSE</u></b>	<b>HOURS</b>
ACCT 2310	3
ECON 2310	3
MGMT 3310	3
MKTG 3370	3
<b>Select 6 hrs from</b> Advanced (3000/4000 level) courses in School of Business	6
<b>TOTAL HOURS</b>	<b>18</b>

<b>MINOR IN BUSINESS COMPUTER INFORMATION SYSTEMS</b> (Not available for CSC and IT Majors)	
<b><u>COURSE</u></b>	<b>HOURS</b>
CIS 1315	3
CSC 1325	3
CIS 2350	3
CIS 3311	3
CIS 3320	3
CSC 3330	3
CIS 4350	3
<b>TOTAL HOURS</b>	<b>21</b>

<b>MINOR IN HERITAGE AND CULTURAL TOURISM</b> (Not available for concentration in Heritage and Cultural Tourism)	
<b><u>COURSE</u></b>	<b>HOURS</b>
ACCT 2310	3
MGMT 3310	3
MKTG 3370	3
TOUR 3340	3
TOUR 4388	3
<b>Select 3 hours from</b> MKTG 3380, 4350, 4380, BA 3350	3
<b>TOTAL HOURS</b>	<b>18</b>

## DEPARTMENT OF CHEMISTRY & BIOCHEMISTRY

*Professor Veltkamp Department Chair*  
*Associate Professors Donnay, Pyenta, Shin*

### Mission

The mission of the Department of Chemistry and Biochemistry is to:

1. educate all students taking a course in this department about the role of chemistry in the world and society,
2. provide science majors the course and laboratory work necessary for them to become competent in the application of chemistry to their chosen fields of study,
3. prepare chemistry and biochemistry majors to gain entry into graduate or professional school, or to obtain an entry-level position in a chemically-related job, and
4. stimulate faculty members toward continued intellectual development.

### Student Outcomes

Successful students will be able to (at a level appropriate to the course):

1. recognize the role of chemistry and biochemistry in the world and society,
2. articulate the major principles of chemistry and biochemistry,
3. use the tools of chemistry,
4. demonstrate their problem-solving skills,
5. evaluate and use chemical information, and
6. communicate chemical information in a manner appropriate for the intended audience.

### Special Programs and Opportunities:

#### **Student Affiliate Chapter of the American Chemical**

**Society.** The ACS student affiliate chapter is open to students interested in chemistry. The purpose of the organization is to stimulate a professional interest in chemistry, to keep students abreast of recent developments in the chemical field, to provide a forum for discussion of chemical topics, to promote scholarship, and to encourage fellowship among those interested in chemistry. Activities include regular meetings, seminars, special interest programs, field trips, and service projects.

**Departmental Awards.** Each spring, awards are presented to outstanding students at the freshman, sophomore, junior, and senior levels. An outstanding junior is awarded the W. Norton Jones scholarship, to be used during the student's senior year.

**Departmental Honors.** Please see the description of the Honors Program earlier in the catalog.

### Courses Taught in the Department of Chemistry:

CHEM 1400	Chemistry in Society
CHEM 1405	Survey of General and Organic Chemistry
CHEM 1406	Survey of Organic and Biochemistry
CHEM 1410	General Chemistry I
CHEM 1420	General Chemistry II
CHEM 2430	Quantitative Analysis
CHEM 3350	Organic Structure Analysis
CHEM 3360	Physical Biochemistry
CHEM 3410	Organic Chemistry I
CHEM 3420	Organic Chemistry II
CHEM 3431	Physical Chemistry I
CHEM 3432	Physical Chemistry II
CHEM 3440	Environmental Chemistry
CHEM 3441	Biochemistry I
CHEM 3442	Biochemistry II
CHEM 3480	Foundational Inorganic Chemistry
CHEM 4101	Literature Seminar
CHEM 4440	Instrumental Methods of Analysis
CHEM 4X20	Introduction to Research
CHEM 4X88	Internship in Chemistry
CHEM 4X95	Independent Studies
CHEM 4X96*	Honors Tutorial
CHEM 4X97*	Honors Research
CHEM XX99	Special Topics

## BACHELOR OF SCIENCE CHEMISTRY

### A MINOR IS NOT REQUIRED FOR THE BACHELOR OF SCIENCE DEGREE IN CHEMISTRY

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

GENERAL EDUCATION REQUIREMENTS	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3     6   2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

MAJOR IN CHEMISTRY	
(4-8 hours may also meet general education requirements)	
CHEMISTRY	HOURS
CHEM 1410	4
CHEM 1420	4
CHEM 2430*	4
CHEM 3410	4
CHEM 3420	4
CHEM 3431	4
CHEM 3432	4
CHEM 3441	4
CHEM 4101	1
CHEM 3480	4
Select 7-8 hrs from CHEM 3350, 3440, 3442, 4440	7-8
<b>SUBTOTAL HOURS</b>	<b>44-45</b>
<b>*Students are strongly encouraged to take CHEM 2430 concurrently with CHEM 3420.</b>	
SUPPORTING COURSES	
<i>A grade of "C" or better is required in all supporting courses</i>	
Select 8-10 hrs from PHYS 1410, 1420, OR PHYS 2510, 2520	8-10
MATH 2421	4
MATH 2322	3
MATH 3351	3
<b>TOTAL HOURS</b>	<b>62-65</b>

#### FOREIGN LANGUAGE REQUIREMENT:

8 hours in a single foreign language will be required unless two years of a single foreign language were completed in high school or the student graduated from high school prior to 1993. The University foreign language requirement is described on page 34 of the catalog.

## BACHELOR OF ARTS CHEMISTRY

### A MINOR IS REQUIRED FOR THE BACHELOR OF ARTS DEGREE IN CHEMISTRY

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>MAJOR IN CHEMISTRY</b> (4-8 hours may also meet general education requirements)	
<u>CHEMISTRY</u>	HOURS
CHEM 1410	4
CHEM 1420	4
CHEM 3410	4
CHEM 3420	4
CHEM 3441	4
CHEM 4101	1
CHEM 3480	4
Select 3-4 hrs from CHEM 3360, 3431	3-4
Select 4 hrs from CHEM 2430*, 3440	4
<b>SUBTOTAL HOURS</b>	<b>32-33</b>
<b>*Students are strongly encouraged to take CHEM 2430 concurrently with CHEM 3420.</b>	
<b>SUPPORTING COURSES</b> <i>A grade of "C" or better is required in all supporting courses</i>	
PHYS 1410	4
PHYS 1420	4
MATH 2421	4
MATH 2322	3
<b>TOTAL HOURS</b>	<b>47-48</b>

#### **FOREIGN LANGUAGE REQUIREMENT:**

This major requires 1 year of foreign language at the college level, or demonstration of proficiency by taking a CLEP exam or a foreign language proficiency exam. The University foreign language requirement is described on page 34 of the catalog.

## BACHELOR OF ARTS CHEMISTRY GRADES 8-12

**A MINOR IN CURRICULUM AND INSTRUCTION IS REQUIRED FOR THE BACHELOR OF ARTS DEGREE IN CHEMISTRY GRADES 8-12**

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>MAJOR IN CHEMISTRY</b> (4-8 hours may also meet general education requirements)	
<u>CHEMISTRY</u>	HOURS
CHEM 1410	4
CHEM 1420	4
CHEM 3410	4
CHEM 3420	4
CHEM 3441	4
CHEM 4101	1
CHEM 3480	4
Select 3-4 hrs from CHEM 3360, 3431	3-4
Select 4 hrs from CHEM 2430*, 3440	4
<b>SUBTOTAL HOURS</b>	<b>32-33</b>
<b>*Students are strongly encouraged to take CHEM 2430 concurrently with CHEM 3420.</b>	
<b>SUPPORTING COURSES</b> <i>A grade of "C" or better is required in all supporting courses</i>	
PHYS 1410	4
PHYS 1420	4
MATH 2421	4
MATH 2322	3
<b>TOTAL HOURS</b>	<b>47-48</b>

<b>MINOR IN CURRICULUM AND INSTRUCTION (GRADES 8-12)</b>	
<u>COURSE</u>	HOURS
CI 2110 <i>The following CI courses listed in this box require admission to the Teacher Education Program.</i>	1
CI 3301	3
CI 3302	3
CI 4324	3
CI 4325	3
CI 4125	1
CI 4198	1
CI 4602	6
<b>TOTAL HOURS</b>	<b>21</b>

**FOREIGN LANGUAGE REQUIREMENT:**

This major requires 1 year of foreign language at the college level, or demonstration of proficiency by taking a CLEP exam or a foreign language proficiency exam. The University foreign language requirement is described on page 34 of the catalog.

**TEACHING FIELDS:**

The required courses for preparation to teach Physical Science (Chemistry and Physics) at the high school level are found in the Curriculum and Instruction section of the catalog, page 91.

## BACHELOR OF SCIENCE BIOCHEMISTRY

### A MINOR IS NOT REQUIRED FOR THE BACHELOR OF SCIENCE DEGREE IN BIOCHEMISTRY

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <i>World</i> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <i>Society and Self</i> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <i>Health and Fitness</i> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3          6       2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>MAJOR IN BIOCHEMISTRY</b> (4-8 hours may also meet general education requirements)	
<u>BIOCHEMISTRY</u>	HOURS
CHEM 1410	4
CHEM 1420	4
CHEM 2430*	4
CHEM 3410	4
CHEM 3420	4
CHEM 3441	4
CHEM 3442	4
CHEM 4101	1
<b>Select 3-4 hrs from</b> CHEM 3360, 3431	3-4
<b>Select 3-4 hrs from</b> CHEM 3350, 3432, 3480, 4440	3-4
<b>SUBTOTAL HOURS</b>	<b>35-37</b>
<b>*Students are strongly encouraged to take CHEM 2430 concurrently with CHEM 3420</b>	
<b>SUPPORTING COURSES</b> <i>A grade of "C" or better is required in all supporting courses</i>	
MATH 2421	4
MATH 2322	3
BIOL 1301	3
BIOL 3460	4
BIMS 4320	3
BIMS 4120	1
<b>Select 8-10 hrs from</b> PHYS 1410, 1420, OR PHYS 2510, 2520	8-10
<b>TOTAL HOURS</b>	<b>61-65</b>

#### **FOREIGN LANGUAGE REQUIREMENT:**

8 hours in a single foreign language will be required unless two years of a single foreign language were completed in high school or the student graduated from high school prior to 1993. The University foreign language requirement is described on page 34 of the catalog.

## CHEMISTRY DEPARTMENT MINORS

<b>MINOR IN CHEMISTRY</b> (Not available for Chemistry or Biochemistry majors)	
<b><u>COURSE</u></b>	<b>HOURS</b>
CHEM 1410	4
CHEM 1420	4
<b>Select 12 hrs from</b> (at least 6 hrs advanced) CHEM 2000, 3000, 4000 level courses	12
<b>TOTAL HOURS</b>	<b>20</b>

<b>MINOR IN BIOCHEMISTRY</b> (Not available for Biochemistry or Chemistry majors)	
<b><u>COURSE</u></b>	<b>HOURS</b>
CHEM 1410	4
CHEM 1420	4
CHEM 3410	4
CHEM 3420	4
CHEM 3441	4
CHEM 3442	4
<b>TOTAL HOURS</b>	<b>24</b>



## COMMUNICATION STUDIES

Instructors Curry, Williams, Whittemore

The communication Studies Department offers three courses in support of the General Education Curriculum.

### Courses Taught in Communication:

COMM 1310	<i>Principles of Communication</i>
COMM 2330	<i>Business &amp; Professional Communication</i>
COMM 2350	<i>Argumentation &amp; Advocacy</i>

## DEPARTMENT OF COMPUTER SCIENCE

Professor Wyatt, Dean of School of Natural and Computational Sciences

Assistant Professor Watson, Department Chair

Instructor Brozovic

### Mission and Goals:

The mission of the Department of Computer Science is:

1. To prepare students for professional careers and graduate study in computer science through the teaching of theory, concepts, and problem solving skills.
2. To provide practical experience with current languages, tools, and trends that prepares students to be immediately effective in their careers.
3. To provide theory and practical experience with appropriate concepts and software for students who plan to teach.

### Program outcomes:

Graduates of the program will:

1. Be able to apply fundamental principles of computer science, mathematics, and science to solve complex problems.
2. Be able to analyze, design, implement, and evaluate a computer-based system, process, component, or program using current techniques, skills, and tools to meet desired user requirements.
3. Understand and apply best practices and standards for systems development including design and implementation.
4. Be able to work effectively on teams to accomplish a common goal.
5. Be able to analyze the impact of computing on individuals, organizations, and society, including ethical, legal, security, and policy issues and to understand their own professional, ethical, and social responsibilities.
6. Be able to communicate effectively.
7. Recognize the need for and be able to engage in continuing professional development.

### Special Programs and Opportunities:

*Association of Information Technology Professionals (AITP).* AITP is a professional organization whose mission is to serve "members by delivering relevant technology and leadership education, research and information on current business and technology issues, and forums for networking and collaboration." (AITP Mission Statement 2008) Student membership is open to all students interested in computing and information technology. Activities of the McMurry AITP Student Chapter include regular chapter meetings, fund raisers, special programs like relevant guest speakers, student programming and technology contests, participation in service projects, and trips to regional and national conferences. The McMurry AITP Student Chapter is affiliated with the local (professional) AITP Big Country Chapter and all students have a standing invitation to their monthly meetings and activities.

*Departmental Awards.* Each spring, awards are presented to outstanding students at the freshman, sophomore, junior, and senior levels. An outstanding junior is awarded the O. P. Thrane scholarship, to be used during the student's senior year.

*Departmental Honors.* Please see the description of the Honors Program earlier in the catalog.

### Programs of the Department of Computer Science

#### *Bachelor of Science in Computer Science*

Computer Science is the foundation for all other computing disciplines. The B.S. degree in Computer Science provides broad coverage of the field of computation from a theoretical perspective. Students of Computer Science study the fundamental concepts used in software construction, computer design, and computer operating systems design. Computer Science graduates will be prepared to take advantage of a diverse range of opportunities in the field of computation.

#### *Bachelor of Science in Information Technology*

The B.S. degree in Information Technology is more focused and applied than the Computer Science major. Students study the deployment, application, and security of computer systems. Emphasis is placed on the operational aspects of computing in industrial and business settings.

### Courses Taught in the Department of Computer Science:

CSC 1305	Computers in Education
CSC 1322	Introduction to Computer Science
CSC 1325	Fundamentals of Computer Science
CSC 1340	Advanced Programming Concepts
CSC 2370	Assembly Lang. and Computer Organization
CSC 3315	Information and Communication Technologies
CSC 3330	Fundamentals of Networking
CSC 3360	Data Structures
CSC 4310	Organization of Programming Languages
CSC 4340	Operating Systems
CSC 4360	Software Engineering
CSC 4388	Internship in Computer Science
CSC 4X95	Independent Studies
CSC 4X96*	Honors Tutorial
CSC 4X97*	Honors Research
CSC XX99	Special Topics
IT 3310	Information Security
IT 3320	Systems Admin and Maintenance

## BACHELOR OF SCIENCE COMPUTER SCIENCE

### A MINOR IS REQUIRED FOR THE BACHELOR OF SCIENCE DEGREE IN COMPUTER SCIENCE

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> <b>Select 3 hrs from</b> HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> <b>Select 3 hrs from</b> MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> <b>Select 3 hrs from</b> BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> <b>Select 3 hrs from</b> REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> <b>Select 3 hrs from</b> ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <b><i>World</i> Select 3 hrs from</b> ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <b><i>Society and Self</i> Select 6 hrs from two disciplines</b> ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <b><i>Health and Fitness</i> Select 2 hrs from</b> H F 1210 H F 1200 * <small>*(for students age 30 or above, or medical exemption)</small>	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) <b>Select 4 hrs from</b> BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>MAJOR IN COMPUTER SCIENCE</b>	
(3-7 hours may also meet general education requirements)	
<u>COMPUTER SCIENCE</u>	HOURS
CSC 1322	3
CSC 1325	3
CSC 1340	3
CIS 2350	3
CSC 2370	3
CIS 3311	3
CSC 3330	3
CSC 3360	3
CSC 4310	3
CSC 4340	3
CIS 4350	3
CSC 4360	3
<b>Select 6 hrs from</b> Advanced electives CSC/CIS	6
<b>SUBTOTAL HOURS</b>	<b>42</b>
<b>SUPPORTING COURSES</b>	
<i>A grade of "C" or better is required in all supporting courses</i>	
MATH 2421	4
MATH 2340	3
MATH 3351	3
MATH 4331	3
<b>TOTAL HOURS</b>	<b>55</b>

#### **FOREIGN LANGUAGE REQUIREMENT:**

8 hours in a single foreign language will be required unless two years of a single foreign language were completed in high school or the student graduated from high school prior to 1993. The University foreign language requirement is described on page 34 of the catalog.

## BACHELOR OF SCIENCE INFORMATION TECHNOLOGY

### A MINOR IS REQUIRED FOR THE BACHELOR OF SCIENCE DEGREE IN INFORMATION TECHNOLOGY

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3     6   2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>MAJOR IN INFORMATION TECHNOLOGY</b> (3-9 hours may also meet general education requirements)	
<u>COMPUTER SCIENCE</u>	HOURS
CSC 1322	3
CSC 1325	3
CIS 2350	3
IT 3310	3
CIS 3311	3
CSC 3315	3
CIS 3320	3
IT 3320	3
MMA 3320	3
CSC 3330	3
CIS 4350	3
CSC 4360	3
<b>Select 3 hrs from</b> Advanced electives CSC, or CIS	3
<b>SUBTOTAL HOURS</b>	<b>39</b>
<b>SUPPORTING COURSES</b> <i>A grade of "C" or better is required in all supporting courses</i>	
COMM 2330	3
MATH 3351	3
<b>TOTAL HOURS</b>	<b>45</b>

#### **FOREIGN LANGUAGE REQUIREMENT:**

8 hours in a single foreign language will be required unless two years of a single foreign language were completed in high school or the student graduated from high school prior to 1993. The University foreign language requirement is described on page 34 of the catalog.

## BACHELOR OF SCIENCE COMPUTER SCIENCE GRADES 8-12

A MINOR IN CURRICULUM AND INSTRUCTION IS REQUIRED FOR THE BACHELOR OF SCIENCE DEGREE  
IN COMPUTER SCIENCE GRADES 8-12

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> <b>Select 3 hrs from</b> HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> <b>Select 3 hrs from</b> MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> <b>Select 3 hrs from</b> BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> <b>Select 3 hrs from</b> REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> <b>Select 3 hrs from</b> ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <b><i>World</i> Select 3 hrs from</b> ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <b><i>Society and Self</i> Select 6 hrs from two disciplines</b> ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <b><i>Health and Fitness</i> Select 2 hrs from</b> H F 1210 H F 1200 * <small>*(for students age 30 or above, or medical exemption)</small>	3 6 2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) <b>Select 4 hrs from</b> BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>MAJOR IN COMPUTER SCIENCE</b>	
(3-7 hours may also meet general education requirements)	
<u>COMPUTER SCIENCE</u>	HOURS
CSC 1322	3
CSC 1325	3
CSC 1340	3
CIS 2350	3
CSC 2370	3
CSC 3330	3
CIS 3311	3
CSC 3360	3
CSC 4310	3
CSC 4340	3
CIS 4350	3
CSC 4360	3
<b>Select 6 hrs from</b> Advanced electives CSC/CIS	6
<b>SUBTOTAL HOURS</b>	<b>42</b>
<b>SUPPORTING COURSES</b>	
<i>A grade of "C" or better is required in all supporting courses</i>	
MATH 2421	4
MATH 2340	3
MATH 3351	3
MATH 4331	3
<b>TOTAL HOURS</b>	<b>55</b>

<b>MINOR IN CURRICULUM AND INSTRUCTION GRADES 8-12</b>	
<u>COURSE</u>	HOURS
CI 2110	1
<i>The following CI courses listed in this box require admission to the Teacher Education Program.</i>	
CI 3301	3
CI 3302	3
CI 4324	3
CI 4325	3
CI 4125	1
CI 4198	1
CI 4602	6
<b>TOTAL HOURS</b>	<b>21</b>

**FOREIGN LANGUAGE REQUIREMENT:**

8 hours in a single foreign language will be required unless two years of a single foreign language were completed in high school or the student graduated from high school prior to 1993. The University foreign language requirement is described on page 34 of the catalog.

## COMPUTER SCIENCE DEPARTMENT MINORS

<b>MINOR IN COMPUTER SCIENCE</b> (Not available for CSC and IT majors, and CIS Concentration)	
<b><u>COURSES</u></b>	<b>HOURS</b>
CSC 1325	3
CSC 1340	3
CIS 2350	3
CIS 3311	3
CSC 3360	3
<b>Select 3 hrs from</b> CSC/CIS advanced electives	3
<b>TOTAL HOURS</b>	<b>18</b>

<b>MINOR IN INFORMATION TECHNOLOGY</b> (Not available for IT and CSC majors, and CIS Concentration)	
<b><u>COURSE</u></b>	<b>HOURS</b>
CSC 1322	3
CSC 1325	3
IT 3310	3
CIS 3311	3
CIS 3320	3
IT 3320	3
CSC 3330	3
<b>TOTAL HOURS</b>	<b>21</b>

## CURRICULUM AND INSTRUCTION

*Professor Haley-Brown, Dean of School of Education*  
*Professor Kirk, Department Chair*  
*Associate Professor Hall*  
*Assistant Professor Kosheleva, Willard*  
*Instructors McInroe, Roper, Scott, Thomesen*

**Mission and Goals:** The mission of the Department of Curriculum and Instruction is to guide future teachers to develop leadership, excellence, and virtue within a Christian environment. Our goal is to support student development of pedagogical, intellectual, and ethical behavior appropriate for professional roles in the school setting. To this end, we have developed a set of courses and field experiences which build progressively to prepare graduates to be successful in their roles as teachers in our schools.

### Special Programs and Opportunities:

**ATPE:** Membership is available in the campus chapter of the Association of Texas Professional Educators. Activities include informational meetings, guest speakers, and an opportunity to participate in meetings at the state and regional levels.

**Kappa Delta Pi:** The Eta Epsilon Chapter of Kappa Delta Pi provides recognition and an opportunity for service in an international honor society. Membership is reserved for education majors and minors who have a 3.25 grade point average at McMurry, at least 45 hours of credit, and one semester of coursework at McMurry.

**Departmental Scholarships:** Three scholarships are offered for the junior or senior year to outstanding students.

**Departmental Honors:** Please see the description of the Honors Program under the Special Program section earlier in the catalog.

**The Teacher Education Program:** A liberal education combined with adequate professional and specialized study constitutes the best preparation for a successful teaching career. The Department of Curriculum and Instruction at McMurry University offers the Bachelor of Science in Early Childhood Education degree and the professional development (C&I) minor to qualify students for the Texas Provisional Teaching Certificate. The Provisional Certificate gives the holder legal authority to perform teaching duties in the public schools of Texas at the grade level and in the academic specialization(s) designated on the face of the certificate. The Department of Curriculum and Instruction, with the advisement of the Education Advisory Council, is responsible for establishing policy and providing leadership for the teacher education program. Because of the multidisciplinary nature of teacher education, several departments of the University are represented on the Education Advisory Council. The administration of McMurry University strives to promote a close, cooperative relationship between the Department of Curriculum and Instruction and the other academic departments of the University. The teacher education program at McMurry is accredited by the Texas Education Agency (TEA).

**DISCLAIMER:** All requirements and conditions for admission to the teacher education program or for certification are subject to change at the direction of Texas Education Agency and/or the State Board of Educator Certification. If you are currently enrolled in the Bachelor of Science in Early Childhood Education, your certification will be EC-6.

### Checklist for Qualifying for a Teaching Certificate:

To qualify for a teaching certificate, students must meet the requirements of both McMurry University and the State Board for Educator Certification (SBEC). There are several important steps which students must follow to insure that these dual requirements are satisfied. These steps include:

1. Achieve a qualifying score as noted on the Texas Higher Education Assessment Tests (THEA), a test of basic skills in mathematics (230), reading (250), and writing/composition (240), Accuplacer 90, Accuplacer Elementary Algebra 63, Accuplacer Sentence Skills 80 and written essay 6 Compass Reading Comprehension 91 Compass Algebra 39 Compass Writing Skills 59 and Written Essay 6. Students

interested in teaching should take this test as soon as possible, even in the freshman year. Information about registering and taking the THEA is available in the Curriculum and Instruction department office. Teacher certification requirements allow for math and writing exemptions from the THEA requirement, credit hours in the subject specific content area for the certification sought, but no exemptions from the reading portion of the test are allowed.

2. Apply for admission to the teacher education program at the conclusion of C I 2110.
3. File a degree plan with appropriate major and minor in the Registrar's Office no later than the sophomore year. See Accuplacer and Compass scores as stated in the Checklist for Qualifying for a Teaching Certificate.
4. Apply for admission to student teaching. Admission requirements are outlined in a subsequent section of the catalog.
5. Achieve a satisfactory score on the certification examinations prescribed by the State Board of Education. Content of the tests will generally cover the areas of professional education and the individual's teaching field(s) or areas of endorsement.
6. File an application for certification with Texas Education Agency (TEA) prior to graduation.

Important details on each of these steps are outlined in subsequent sections of the catalog. Students are urged to read the catalog carefully and consult closely with their faculty advisors in planning their programs of study.

## ADMISSION TO TEACHER EDUCATION PROGRAM

### Criteria for Admission

1. Declared major in an approved teaching field with a minimum of 12 semester hours of coursework in the field, and a declared minor in Curriculum and Instruction.
2. Overall grade point average of 2.75 or higher. (Students who have been out of college 5 years or more can be considered under the "interrupted studies" criteria.)
3. Evidence of successful passage of the THEA Test: Math 230, Writing 240, Reading 250, or proof of exemption status only in math and/or writing. (also see Accuplacer and Compass).
4. Evidence of freedom from serious mental and personality defects or physical handicaps which would seriously impede effectiveness in the classroom or employment as a classroom teacher. The Education Advisory Council may require that the student, at his or her own expense, take a physical examination and/or submit to a psychological evaluation which may include tests or inventories. Such evaluation must be completed and a report submitted to the Council by a licensed mental health professional who is acceptable to the University and who is aware of the Council's concerns with regard to the candidate's admission to the Teacher Education Program. Students will not be admitted to Teacher Education Program or student teaching and teaching internship until the evaluation results are submitted to and reviewed by the Council and a final decision is made by the Education Advisory Council. Failure to comply with this process may result in non-admission to or dismissal from the Teacher Education Program.
5. No pattern of serious, documented behavioral problems.
6. Ability to meet the general requirements for the Provisional teaching certificate, as stated in the "Requirements of the State Board for Educator Certification (SBEC) for Provisional Certificate" section of this catalog.
7. Successful completion of English 1310, 1320, Comm 1310 and Math 1311 or higher.
8. Successful completion of Introduction to Education, C I 2110, with a grade of "C" or better.

**Note:** Requirements for admission to the Teacher Education Program which are in effect at the time the teacher candidate is admitted to the program shall be followed unless specifically relieved in individual cases by three-fourths' majority of the Education Advisory Council at the time admission to the program is considered.

### Admission Procedure

Students should apply for admission to the Teacher Education program while they are enrolled in C I 2110, Introduction to Education. The application is made in writing and submitted to the C I department office. Transfer

students should delay such application until they have completed 12 hours in the teaching field, and one semester of work in residence at McMurry. All sections of the required tests listed on the Checklist for Qualifying for a Teaching Certificate must be passed, or proof of exemption provided, before any CI courses above 2110 are taken. The Education Advisory Council will review the student's application and inform him/her whether the student has been admitted or denied admission.

- Students who are denied admission to the program are precluded from enrolling in Curriculum and Instruction courses. Upon request, a student who has been denied admission to the program may be permitted to appear before the Education Advisory Council to appeal the denial.
- Failure to be admitted to the Teacher Education program or, if admitted, to complete the required course sequence in a timely manner will require the student to choose a different minor and a non-teaching field major.
- The applicant should understand that admission to the Teacher Education program does not constitute assurance of certification.

### ADMISSION TO STUDENT TEACHING OR TEACHING INTERNSHIP

The state of Texas requires a minimum of 12 weeks of full time student teaching. Student teaching and internship are the capstone courses in the Teacher Education Program

#### Criteria for Admission:

1. Evidence of freedom from serious mental and personality disorders or physical disabilities which would seriously impede effectiveness in the classroom or employment as a classroom teacher. The Education Advisory Council may require that the student, at his or her own expense, take a physical examination and/or submit to a psychological evaluation, which may include tests or inventories. Such evaluation must be completed and a report submitted to the Council by a licensed mental health professional who is acceptable to the University and who is aware of the Council's concerns with regard to the candidate's admission to student teaching or teaching internship. Students will not be admitted to student teaching or teaching internship until the evaluation results are made available to and reviewed by the Council and a final decision is made by the Education Advisory Council. Failure to comply with this process may result in non-admission to or dismissal from student teaching or teaching internship.
2. No pattern of serious, documented behavioral problems as evidenced by a departmental review of the student's file.
3. Ability to meet general requirements for the standard teaching certificate, as stated in the "Requirements of the State Board for Educator Certification (SBEC) for Provisional Certificate" section of this catalog.
4. For student teaching: completion of 110 semester hours. For internship: a bachelor's degree with a minimum of 120 credit hours.
5. Overall grade point average of 2.75 or higher.
6. Grade point average of 2.75 or higher with no grade below "C" in any course listed under the degree requirements for the teaching certification desired.
7. Completion of all courses listed under the Certification degree plan with the exception of 7 hours of student teaching or teaching internship, and an additional 3 credit hours.
8. Approval granted by the Education Advisory Council.

#### For elementary education candidates (EC-6):

Criteria listed above in 1 through 8 will apply.

#### For middle school education candidates (4-8):

Criteria listed above in 1 through 5 will apply, and

- Completion of C I 2110, 3301, 3302, 4422, 4323, 4123, and at least twenty seven hours in an approved teaching field with a GPA of 2.75 in the teaching field.

#### For secondary education candidates (8-12):

Criteria listed above in 1 through 5 will apply, and

- Completion of C I 2110, 3301, 3302, 4324, 4325, 4125, and at least twenty seven hours in an approved teaching field with a GPA of 2.75 in the teaching field.

#### For all-level certificates:

Criteria listed above in 1 through 5 will apply, and

- Completion of C I 2110, 3301, 3302, 4324, 4325, 4125, and at least twenty seven hours in an approved teaching field with a GPA of 2.75 in the teaching field.

#### Other requirements for all student teachers:

- Students may not enroll or audit more than nine semester hours (six hours of student teaching, three hours of additional course work) including concurrent enrollment at other institutions during the semester of student teaching without permission of the Department.
- Student teachers are required to remain on their assigned school campuses during regular school hours. All extracurricular activities and job assignments must be declared prior to the beginning of student teaching and must be approved by the department.

### REQUIREMENTS OF THE TEXAS EDUCATION AGENCY (TEA) FOR PROVISIONAL CERTIFICATE

The Texas Education Agency (TEA) has established general requirements for the Provisional teaching certificate. These requirements include:

1. Bachelor's degree from, and the recommendation of, an institution of higher learning approved for teacher education by the SBEC;
2. Be at least eighteen years of age;
3. Be of good moral character as evidenced by the recommendation of a Texas senior college;
4. Be clear of felony or misdemeanor convictions for crimes which directly relate to the duties and responsibilities of the teaching profession. As of September 1, 1982, all applicants for Texas certificates will be screened for a record of felony or misdemeanor conviction through the Texas Department of Public Safety. Article 6252-13c, Texas Civil Statutes, authorizes the Commissioner of Education to suspend, revoke, or refuse to issue a teaching certificate for a person who has been convicted of a felony or misdemeanor which directly relates to duties and responsibilities of the teaching profession. All potential certificate applicants with criminal convictions should contact the Certification Officer of McMurry University immediately to seek clarification of their certification status. Applicants are now required to submit finger prints to the Texas Education Agency to fulfill certification requirements.
5. Be willing to support and defend the constitutions of the United States and Texas;
6. Have college credit or examination credit in knowledge of the Texas and federal constitutions and United States history;
7. Achieve a satisfactory score on a competency examination of basic skills in mathematics, reading, and writing/composition. THEA, Accuplacer, and Compass will be the test of basic skills required by McMurry University to meet the SBEC standard; exemptions from the THEA, Accuplacer, and Compass are outlined above and are available from the Curriculum and Instruction office.
8. Achieve a satisfactory score on the certification examinations prescribed by the State Board of Education. These tests are required as a criterion for receipt of the Provisional teaching certificate.
9. Submit an application for certification to the State certification authority accompanied by the appropriate fee.

### McMURRY REQUIREMENTS FOR CERTIFICATION

In addition to all certification requirements established by the State of Texas, McMurry University has established requirements for certification which are above and beyond normal graduation requirements. To secure a recommendation for certification from McMurry, one must meet the following criteria:

1. Completion of an approved degree program leading toward certification and the C&I professional development minor
2. Overall grade point average of 2.75.
3. Grade point average of 2.75 with no grade lower than a "C" in each of the following areas:

## Curriculum and Instruction

- a) for EC-6 certification:
- Professional development courses in the Curriculum and Instruction minor; and
  - All required courses for the Early Childhood Education degree
- b) for 4-8 certification:
- Professional development courses in the Curriculum and Instruction minor; and
  - All required courses for the 4-8 teaching field
- c) for 8-12 certification:
- Professional development courses in the Curriculum and Instruction minor; and
  - All required courses for the 8-12 teaching field

**Students who have completed degrees before entering teacher education program must meet the requirements of their individual certification plans before they will be approved for certification.**

## POLICY EXCEPTIONS

Exceptions to the teacher education policies stated in this Bulletin require action by the Education Advisory Council. A request for variation should be submitted in writing to the Department of Curriculum and Instruction at least one month in advance of the time it is desired. Students will be notified in writing of action taken by the Education Advisory Council on their variance requests.

## TEACHING CERTIFICATES

### Grades 8 through 12 and All Levels Certificates

This option is for students planning to teach in secondary schools grades 8 through 12 and for students who are seeking all-levels certification in those fields which require all-levels certificates. The options for these teaching fields are listed below. The coursework requirements for each teaching field will be specified by the department responsible for that teaching field; the courses required for the Curriculum and Instruction professional development minor are specified below.

Teaching Field	Certification
Art	All Levels
Business Basic	6- 12
Chemistry	8- 12
Computer Science	8 - 12
English Language Arts-Reading	8 - 12
History	8 - 12
Life Sciences	8 - 12
Mathematics	8 - 12
Physical Education	All Levels
Physical Sciences	8 - 12
Music	All Levels
Social Studies	8 - 12
Speech Communication (Post-Bacc students only)	8 - 12
Spanish	All Levels
Technology Applications	8 - 12
Theatre Arts	8 - 12

### Required Courses for Secondary and all levels Curriculum and Instruction minor:

C I 2110	C I 3301
C I 3302	C I 4324
C I 4325	C I 4125
C I 4198	

Six hours student teaching based on area of preparation

### Grades 4 through 8 Certificates

This option is for students planning to teach in grades 4 through 8. Teaching fields are available in the following fields. The coursework requirements for each teaching field will be specified by the department responsible for that teaching field; the courses required for the Curriculum and Instruction professional development minor are specified below.

Teaching Field	Certification
English Language Arts-Reading	4 - 8
Mathematics	4 - 8

Science	4 - 8
Social Studies	4 - 8

## Required Courses for Middle School Curriculum and Instruction minor:

C I 2110	C I 3301
C I 3302	C I 4322
C I 4323	C I 4123
C I 4198	

Six hours student teaching based on area of preparation

## Early Childhood Education Program and Degree

Early Childhood through Grade 6 Certification

This option is for students who plan to teach in grades EC through 6. The curriculum will include coursework in early childhood development as well as reading, language arts, science, mathematics, social studies, art, physical education, drama, and music for elementary majors; students seeking bilingual certification will take additional coursework in Spanish and Spanish culture. The certification will be Early Childhood through Grade 6 Generalist or Early Childhood through Grade 6 Bilingual Generalist.

Teaching Field	Certification
EC-6 Generalist	EC - 6
EC-6 Bilingual Generalist	EC - 6

## Suggested Sequence of Required Major Courses for the Early Childhood Education Major:

C I 2110 (take during semester in which last general education requirements are completed; can be fall or spring)

<i>First Semester - Fall</i>		<i>First Semester - Spring</i>	
READ 3300, 3315	6	READ 3300, 3315	6
CSC 1305	3	CSC 1305	3
ECED 3300	3	ECED 3300	3
KINE 3340 or THRE 3360	3	KINE 3241 or THRE 3360	2-3
CI 2110	1	CI 2110	1
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>15-16</b>

## Apply for Admission to Teacher Education Program

<i>Second Semester - Spring</i>		<i>Second Semester - Fall</i>	
READ 3334, 3380	6	READ 3334, 3380	6
ECED 3330, 3360	6	ECED 3330, 3360	6
ART 3370, THRE 3360, or KINE 3340	3	THRE 3360, or KINE 3241	2-3
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>14-15</b>

<i>Third Semester - Fall</i>		<i>Third Semester - Spring</i>	
CI 3301, 3302	6	READ 3335	3
READ 3335	3	CI 3301, 3302	6
ECED 3331, 4370	6	ECED 3331, 4370	6
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>15</b>

<i>Fourth Semester - Spring</i>		<i>Fourth Semester - Fall</i>	
CI 4320, 4321, 4121	7	READ 4337	3
ECED 4330	3	CI 4320, 4321, 4121	7
READ 4337	3	ECED 4330	3
<b>Total</b>	<b>13</b>	<b>Total</b>	<b>16</b>

<i>Fifth Semester - Fall</i>		<i>Fifth Semester - Spring</i>	
Student Teaching with Seminar	7	Student teaching with Seminar	7
<b>Total</b>	<b>7</b>	<b>Total</b>	<b>7</b>

## ENDORSEMENTS

The Department of Curriculum and Instruction also offers coursework leading to the following supplemental teaching endorsements.

### English as a Second Language (EC-6)

Required courses for the EC-4 ESL Supplemental teaching endorsement are: READ 3310 or ENG 4382, READ 3334, ECED 4330, and CI 4305.



**Required Courses for the EC-6 Bilingual Generalist****Major:**

All courses listed above for the EC-6 Generalist major and EC-6 Curriculum and Instruction minor as well as the following courses:

BIED 3301, 3331, 3375 or 3336, 4322

SPAN 1410, 1420, 2310, 2320

**Bilingual Supplemental (EC-6)**

Students who pursue Bilingual certification must be prepared to take the Texas Oral Proficiency Test (TOPT) in Spanish. Course work that will support the language requirements: SPAN 1410, 1420, 2310, 2320. Qualified students may make arrangements with the Modern Language Department for credit by exam for these courses. Please see your advisor for information if you are currently pursuing this endorsement. As the new state standards come into effect, you will be advised and your degree plan may be modified. Currently, READ 3334, C I 4330, ENG 4382 or Reading 4399, and C I 4305 are required for this certification and the ESL endorsement.

**POST-BACCALAUREATE PROGRAM**

McMurry University offers a FasTrack program for post-baccalaureate students to become certified teachers. Students who hold a degree and meet the requirements for admission to the School of Education may apply through the certification officer for admission to the program. Professional education courses are offered face-to-face and online. Students with sufficient hours in an undergraduate major that is an approved secondary teaching field may be prepared for either student teaching or a paid internship by completing a minimum of fifteen credit hours of course work. Elementary post-baccalaureate programs are available and can generally be completed within one calendar year. Individual plans will vary in requirements based upon an evaluation of each student's undergraduate course work. Each applicant will schedule a required interview with the Certification Officer prior to application to the program. Two grades of C- or below or 2 withdrawals from the program requires a 5 year waiting period before the student can reapply to the McMurry FasTrack Program. 30 clock hours of field-based experience to be completed prior to student teaching, clinical teaching, or internship. Up to 15 clock hours of field experience may be provided by the use of electronic transmission, or other video technology based method. (Rule 228.35 (a) (3) (A) of the Texas State Code).

**Courses Taught in the Curriculum and Instruction Department:**

CI 2110	Introduction to Education
CI 3301	Theories of Learning
CI 3302	The Inclusive Classroom
CI 4198	Student teaching Seminar
CI 4305	Student Teaching in the ESL or BIED Classroom
CI 4308	Student Teaching Grades EC-6
CI 4309	Student Teaching Grades 8-12
CI 4310	Student Teaching Grades 4-8
CI 4320	Methods and Management in the Elementary School
CI 4321	Plan., Curriculum, and Assessment Elementary School
CI 4121	Professional Development Internship Grades EC-6
CI 4322	Methods and Management in the Middle School
CI 4323	Plan., Curriculum, and Assessment in Middle School
CI 4123	Professional Development Internship Grades 4-8
CI 4324	Methods and Management in the Secondary School
CI 4325	Plan., Curriculum, and Assessment Secondary School
CI 4125	Professional Development Internship Grades 8-12
CI 4350	Methods and Management in the Elementary School
CI 4351	Plan., Curriculum, and Assessment Elementary School
CI 4352	Methods and Management in the Middle School
CI 4353	Plan., Curriculum, and Assessment in Middle School
CI 4354	Methods and Management in the Secondary School
CI 4355	Plan., Curriculum, and Assessment Secondary School
CI 4160	Classroom Observation and Reflections (TxBess)
CI 4388	Teaching Internship
CI 4601	Student Teaching Grades EC-6
CI 4602	Student Teaching Grades 8-12
CI 4603	Student Teaching Grades 8-12
CI 4X95	Independent Studies
CI 4X96*	Honors Tutorial
CI 4X97*	Honors Thesis
CI XX99	Special Topics

ECED 3300  
ECED 3330  
ECED 3331  
ECED 3360  
ECED 3361  
ECED 4330  
ECED 4370  
ECED 4371  
ECED XX99

READ 3300  
READ 3310  
READ 3315  
READ 3316  
READ 3332  
READ 3334  
READ 3335  
READ 3338  
READ 3340  
READ 3342  
READ 3380  
READ 4337  
READ XX99

Theory and Practice in Early Childhood Education  
Teaching Elementary Math I EC-6  
Teaching Elementary Math II EC-6  
Teaching Social Studies EC-6  
Teaching Social Studies 4-8  
Language Acquisition and Development  
Teaching Science EC-6  
Teaching Science 4-8  
Special Topics

Introduction to the Teaching of Reading EC-6  
Language: Mind, Brain and Society  
Children's Literature I  
Children's Literature II  
Reading in the Content Areas Grades 4-8  
Reading and Language Arts in Multilingual Cls. Room  
Reading, Instruction and Assessment  
Teaching Reading Grades 8-12  
Teaching Reading Grades 4-8  
Reading in the Content Areas Grades 8-12  
Teaching Language Arts EC-6  
Diagnostic and Corrective Reading Grades EC-6  
Special Topics

**BACHELOR OF SCIENCE  
EARLY CHILDHOOD EDUCATION**

**A MINOR IN CURRICULUM AND INSTRUCTION IS REQUIRED FOR THE BACHELOR OF SCIENCE DEGREE IN EARLY CHILDHOOD EDUCATION**  
All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <i>World</i> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <i>Society and Self</i> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <i>Health and Fitness</i> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3          6    2
<b>NATURAL SCIENCE (4 hrs) (as required by major)</b> Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<u>EARLY CHILDHOOD EDUCATION</u>	
<u>COURSE</u>	HOURS
<b>Combination of Subjects</b>	
READ 3300	3
READ 3315	3
READ 3334	3
READ 3335	3
READ 3380	3
READ 4337	3
ECED 3300	3
ECED 3330	3
ECED 3331	3
ECED 3360	3
ECED 4330	3
ECED 4370	3
<b>Supporting Courses</b>	
CSC 1305	3
Select 2 courses from ART 3370, KINE 3340, THRE 3360, ENG 4382, READ 3310, or similar course	6
<b>TOTAL HOURS</b>	<b>45</b>

<u>MINOR IN CURRICULUM AND INSTRUCTION (GRADES EC-6)</u>	
<u>COURSE</u>	HOURS
CI 2110 <i>The following CI courses listed in this box require admission to the Teacher Education Program.</i>	1
CI 3301	3
CI 3302	3
CI 4320	3
CI 4321	3
CI 4121	1
CI 4198	1
CI 4601	6
<b>TOTAL HOURS</b>	<b>21</b>

**FOREIGN LANGUAGE REQUIREMENT:**

8 hours in a single foreign language will be required unless two years of a single foreign language were completed in high school or the student graduated from high school prior to 1993. The University foreign language requirement is described on page 34 of the catalog.

**NOTE:** *ESL endorsement and Bilingual Education requirements are listed on the following page.*

**BACHELOR OF SCIENCE  
EARLY CHILDHOOD EDUCATION  
ESL ENDORSEMENT AND BILINGUAL EDUCATION**

**ESL Endorsement (EC-12):**

Please see your advisor for information if you are currently pursuing this endorsement. As the new state standards come into effect, you will be advised and your degree plan may be modified. Currently, READ 3334, ECED 4330, ENG 4382, and C I 4305 are required for this endorsement.

<b><u>ESL ENDORSEMENT</u></b>	<b>HOURS</b>
READ 3310 OR ENG 4382	3
READ 3334	3
ECED 4330	3
CI 4305	3
<b>TOTAL HOURS</b>	<b>12</b>

**Bilingual Supplemental (EC-12)**

Students who pursue Bilingual certification must be prepared to take the Texas Oral Proficiency Test (TOPT) in Spanish. Course work that will support the language requirements: SPAN 1410, 1420, 2310, 2320. Qualified students may make arrangements with the Modern Language Department for credit by exam for these courses.

<b><u>BILINGUAL EDUCATION GRADES EC-12</u></b>	<b>HOURS</b>
SPAN 3301	3
SPAN 3331	3
READ 3334	3
HIST 3375 or SPAN 3336	3
SPAN 4322	3
SPAN 1410	4
SPAN 1420	4
SPAN 2310	3
SPAN 2320	3
<b>TOTAL HOURS</b>	<b>29</b>

## BACHELOR OF SCIENCE MULTIDISCIPLINARY STUDIES II (GRADES 4-8)

### A MINOR IS NOT REQUIRED FOR THE BACHELOR OF SCIENCE DEGREE

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>CURRICULUM AND INSTRUCTION (GRADES 4-8)</b>	
<u>COURSE</u>	HOURS
CI 2110 <i>The following CI courses listed in this box require admission to the Teacher Education Program.</i>	1
CI 3301	3
CI 3302	3
CI 4322	3
CI 4323	3
CI 4123	1
CI 4198	1
CI 4603	6
<b>TOTAL HOURS</b>	<b>21</b>

<b>Select One Teaching Field</b>
<u>Available Teaching Fields</u>
<u>Science (4-8)</u> <u>Social Studies (4-8)</u>

<b>Teaching Fields Available Through Other Departments</b>
<u>English Language Arts/Read (4-8)</u> See English Department <u>Mathematics (4-8)</u> See Mathematics Department

<b>FOREIGN LANGUAGE REQUIREMENT:</b>
8 hours in a single foreign language will be required unless two years of a single foreign language were completed in high school or the student graduated from high school prior to 1993. The University foreign language requirement is described on page 34 of the catalog.

## TEACHING FIELDS GRADES 4-8

<b><u>SOCIAL STUDIES</u></b> <b><u>GRADES 4-8</u></b>	<b>HOURS</b>
ECON 2310	3
ECON 2320	3
HIST 1310	3
HIST 1320	3
HIST 2310	3
HIST 2320	3
HIST 3310	3
HIST 3377	3
HIST 4380	3
PSC 2310	3
PSC 2320	3
PSC 3310	3
<b>Select 6 hrs from</b> Advanced U.S. HIST courses	6
<b>Select 6 hrs from</b> Advanced PSC courses	6
<b>TOTAL HOURS</b>	<b>48</b>
<b>SUPPORTING COURSES</b>	
ECED 3361	3

<b><u>SCIENCE</u></b> <b><u>GRADES 4-8</u></b>	<b>HOURS</b>
BIOL 1301	3
BIOL 1402	4
BIOL 1403	4
BIOL 4430	4
CHEM 1410	4
CHEM 1420	4
GEOS 1405	4
GEOS 1410	4
PHYS 1410	4
PHYS 1420	4
PHYS 1401	4
<b>TOTAL HOURS</b>	<b>43</b>
<b>SUPPORTING COURSES</b>	
ECED 4371	3

<b>Teaching Fields Available Through Other Departments</b>
English Language Arts/Read (4-8) See English Department Mathematics (4-8) See Mathematics Department

## BACHELOR OF SCIENCE MULTIDISCIPLINARY STUDIES I (GRADES 8-12)

### A MINOR IS NOT REQUIRED FOR THE BACHELOR OF SCIENCE DEGREE

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

CURRICULUM AND INSTRUCTION (GRADES 8-12)	
<u>COURSE</u>	HOURS
CI 2110 <i>The following CI courses in this box require admission to the Teacher Education Program.</i>	1
CI 3301	3
CI 3302	3
CI 4324	3
CI 4325	3
CI 4125	1
CI 4198	1
CI 4602	6
<b>TOTAL HOURS</b>	<b>21</b>

#### Select One Teaching Field

##### Available Teaching Fields

Business Basic (6-12)  
Physical Sciences (8-12)  
Technology Applications (8-12)

#### Teaching Fields Available Through Other Departments

Art (All Level) See Art Department  
Chemistry (8-12) See Chemistry Department  
Computer Science (8-12) See Computer Science Department  
English Language Arts (8-12) See English Department  
History (8-12) See History Department  
Life Science (8-12) See Biology Department  
Mathematics (8-12) See Mathematics Department  
Music (All Level) See Music Department  
Physical Education (All Level) See Kinesiology Department  
Social Studies (8-12) See History and Political Science Depts.  
Spanish (EC-12) See Spanish Studies Department  
Theatre Arts (8-12) See Theatre Department

#### FOREIGN LANGUAGE REQUIREMENT:

8 hours in a single foreign language will be required unless two years of a single foreign language were completed in high school or the student graduated from high school prior to 1993. The University foreign language requirement is described on page 34 of the catalog.

**MULTIDISCIPLINARY STUDIES I  
TEACHING FIELDS  
GRADES 8-12**

<u>BUSINESS BASIC</u> <u>GRADES 6-12</u>	HOURS
ACCT 2310	3
ACCT 3370	3
BA 1310	3
BA 3370	3
BA 4370	3
ECON 2310	3
ECON 2320	3
FIN 3330	3
FIN 3350	3
FIN 3340	3
MGMT 3310	3
MKTG 3370	3
<b>Select 3 hrs from</b> BA 3350, 4380, 4385	3
<b>TOTAL HOURS</b>	<b>39</b>

<u>TECHNOLOGY APPLICATIONS</u> <u>GRADES 8-12</u>	HOURS
MMA 2310	3
MMA 2340	3
MMA 3310	3
MMA 3320	3
ART 1310	3
ART 3330	3
ART 3334	3
CSC 1305	3
CSC 3315	3
<b>TOTAL HOURS</b>	<b>27</b>

<u>PHYSICAL SCIENCES</u> <u>GRADES 8-12</u>	HOURS
CHEM 1410	4
CHEM 1420	4
CHEM 2430	4
CHEM 3410	4
CHEM 3420	4
CHEM 3431	4
PHYS 2510	5
PHYS 2520	5
PHYS 3270	2
PHYS 3300	3
PHYS 4300	3
PHYS 4310	3
<b>Select 3 hrs from</b> Any 4000 level PHYS course	3
<b>Select 4 hrs from</b> CHEM 3432 CHEM 3441	4
<b>Select 3-4 hrs from</b> CHEM or PHYS courses	3-4
<b>TOTAL HOURS</b>	<b>55-56</b>

## DEVELOPMENTAL STUDIES

*Ms. Bein, Program Director and Director of Academic Enrichment  
Instructors Bein, Bonds, Dita, Laurence, Lopez, Martin, Rieger, St. Jean, Werner*

### Mission and Goals:

The mission of the Developmental Studies (DEVS) Program is to respond to the individual differences and special needs of our students in order to enable them to develop the academic skills and attitudes necessary to achieve success in the liberal arts and pre-professional curriculums. The Developmental Studies Program intends to serve the mission of McMurry University by accomplishing the following goals:

1. ensure proper placement of students into courses appropriate for their skill level;
2. provide pre-college level courses in the areas of mathematics, reading, and writing;
3. work closely with AEC staff in order to provide tutorial support for students enrolled in DEVS courses;
4. work closely with other departments to insure that DEVS curriculum provides students with the skills necessary for transition into college-level courses.

### Program Policies:

Students whose academic placement results indicate a need for pre-college development in math, reading or writing must register for and continually enroll in the corresponding Developmental Studies (DEVS) course(s) until it is passed with a grade of "C-" or better. Once students have met this requirement, they must enroll in the corresponding academic course(s).

Developmental Studies courses (with the exception of DEVS 1100) do not satisfy any degree requirements, other than preparation for college-level courses. They do not count for elective credit and may not be applied toward total hours in a degree.

### Courses Taught:

DEVS 0110	Writing Mechanics
DEVS 0300	Developmental Reading I
DEVS 0302	Developmental Reading II
DEVS 0310	Introduction to Composition
DEVS 0320	Introductory Algebra
DEVS 0330	Intermediate Algebra
DEVS 1100	Strategies for Learning

## DEPARTMENT OF ENGLISH

*Professor Buzan, Division Chair*

*Professor McLamore*

*Associate Professor Thompson*

*Assistant Professor Bonds*

*Instructors Andrews, Daniel, Lopez, Patrick*

### Mission and Goals:

Students successfully completing English department requirements at McMurry University will acquire the following:

- ❖ The ability to conduct literary research and report their findings
- ❖ A college-level acquaintance with literary traditions
- ❖ Improved critical reading
- ❖ An acquaintance with linguistics and language
- ❖ Improved higher-level thinking skills manifested in writing and discussion
- ❖ An acquaintance with how to teach literature, language, and writing
- ❖ Improved approaches to creative writing
- ❖ Adequate advisement from English department faculty about careers or graduate work in English
- ❖ Benefit from an on-going curriculum and program review

### Special Programs and Opportunities

*Sigma Tau Delta.* A professional and national honor society for students of literature and language.

*The Galleon.* The literary magazine of McMurry University.

*Departmental Honors.* Please see the description of the Honors Program under the Special Program section earlier in the catalog.

### Courses Taught in the Department:

ENG 1310	Composition and Rhetoric
ENG 1320	Composition and Literature
ENG 2300	Expository Writing
ENG 2310	Masterpieces of British Literature
ENG 2320	Masterpieces of American Literature
ENG 2330	Masterpieces of World Literature
ENG 2350	Topics in Literary Study
ENG 3310	Medieval English Literature
ENG 3313	World Literature
ENG 3315	Children's Literature I
ENG 3316	Children's Literature II
ENG 3320	English Renaissance
ENG 3330	Restoration and 18th Century English Literature
ENG 3341	English Romanticism
ENG 3342	The Victorian Period
ENG 3371	17th and 18th Century American Literature
ENG 3372	Studies in 19th Century American Literature
ENG 3373	Studies in Modern Literature
ENG 3374	Studies in Contemporary Literature
ENG 3380	Film and Literary Classics
ENG 3373	Theories of Composition
ENG 3385	Professional and Technical Writing
ENG 4309	Holocaust through the Eyes of Elie Wiesel
ENG 4320	Shakespeare
ENG 4340	Studies in a Major Author
ENG 4360	Literary Theory
ENG 4371	Poetry Workshop
ENG 4372	Fiction Workshop
ENG 4374	Writing for Newspapers and Magazines
ENG 4375	Writing for Television and Radio
ENG 4379	Elementary Language Arts Concepts 4-8
ENG 4381	TEKS and the Secondary English Curriculum
ENG 4382	Introduction to Linguistics
ENG 4384	Advanced Grammar
ENG 4X95	Independent Studies
ENG 4X96*	Honors Tutorial
ENG 4X97*	Senior Thesis
ENG 4X98	Senior Opus
ENG XX99	Special Topics



## BACHELOR OF ARTS ENGLISH

### A MINOR IS REQUIRED FOR THE BACHELOR OF ARTS DEGREE

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3     6   2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>MAJOR IN ENGLISH</b> (6-9 hours may also meet general education requirements)	
<u>ENGLISH</u>	HOURS
ENG 1310	3
ENG 1320	3
ENG 2310	3
ENG 2320	3
ENG 4320	3
ENG 4360	3
<b>Select 3 hrs from</b> ENG 3310, 3320, 3330, 3371	3
<b>Select 3 hrs from</b> ENG 3341, 3342, 3372	3
<b>Select 3 hrs from</b> ENG 3373, 3374, 4340	3
<b>Select 9 hrs from</b> Advanced English electives	9
<b>TOTAL HOURS</b>	<b>36</b>

#### **FOREIGN LANGUAGE REQUIREMENT:**

This major requires 2 years of foreign language at the college level, or demonstration of proficiency by taking a CLEP exam or a foreign language proficiency exam. The University foreign language requirement is described on page 34 of the catalog.

## BACHELOR OF ARTS ENGLISH and WRITING

### A MINOR IS REQUIRED FOR THE BACHELOR OF ARTS DEGREE

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> <b>Select 3 hrs from</b> HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> <b>Select 3 hrs from</b> MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> <b>Select 3 hrs from</b> BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> <b>Select 3 hrs from</b> REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> <b>Select 3 hrs from</b> ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <b><u>World</u> Select 3 hrs from</b> ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <b><u>Society and Self</u> Select 6 hrs from two disciplines</b> ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <b><u>Health and Fitness</u> Select 2 hrs from</b> H F 1210 H F 1200 * *(for students age 30 or above, or medical exemption)	3  6 2
<b>NATURAL SCIENCE (4 hrs) (as required by major)</b> <b>Select 4 hrs from</b> BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>MAJOR IN ENGLISH AND WRITING</b> (6-9 hours may also meet general education requirements)	
<u>ENGLISH AND WRITING</u>	HOURS
ENG 1310	3
ENG 1320	3
ENG 2310	3
ENG 2320	3
<b>Select 12 hrs adv. ENG from (No more than one course from each line)</b> ENG 4360 ENG 3310, 3320, 3330, 3371 ENG 3341, 3342, 3372 ENG 3373, 3374, 4340 ENG 4320	12
<b>Select 9 hrs from</b> ENG 3385, 4371, 4372, 4374, 4375	9
<b>Select 3 hrs from</b> Advanced English electives	3
<b>TOTAL HOURS</b>	<b>36</b>

#### **FOREIGN LANGUAGE REQUIREMENT:**

This major requires 2 years of foreign language at the college level, or demonstration of proficiency by taking a CLEP exam or a foreign language proficiency exam. The University foreign language requirement is described on page 34 of the catalog.

## BACHELOR OF ARTS ENGLISH LANGUAGE ARTS & READING GRADES 4-8

### A MINOR IN CURRICULUM AND INSTRUCTION

#### IS REQUIRED FOR THE BACHELOR OF ARTS DEGREE IN ENGLISH LANGUAGE ARTS & READING GRADES 4-8

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>MAJOR IN ENGLISH LANGUAGE ARTS &amp; READING GRADES 4-8</b>	
(3 hours may also meet general education requirements)	
<u>COURSES</u>	HOURS
ENG 2310	3
ENG 2320	3
ENG 3316	3
ENG 3383	3
ENG 4379	3
READ 3332	3
READ 3335	3
READ 3340	3
<b>Select 3 hrs from</b> ENG 4382, 4384	3
<b>Select 3 hrs from</b> ENG 4371, 4372	3
<b>Select 9 hrs from</b> ENG 3310, 3313, 3320, 3330, 3341, 3342, 3371, 3372, 3373, 3374, 3380, 4340	9
<b>TOTAL HOURS</b>	<b>39</b>

<b>MINOR IN CURRICULUM AND INSTRUCTION GRADES 4-8</b>	
C I 2110 <i>The following CI courses listed in this box require admission to the Teacher Education Program.</i>	1
C I 3301	3
C I 3302	3
C I 4322	3
C I 4323	3
C I 4123	1
C I 4198	1
C I 4603	6
<b>TOTAL HOURS</b>	<b>21</b>

#### **FOREIGN LANGUAGE REQUIREMENT:**

This major requires 1 year of foreign language at the college level, or demonstration of proficiency by taking a CLEP exam or a foreign language proficiency exam. The University foreign language requirement is described on page 34 of the catalog.

## BACHELOR OF ARTS ENGLISH LANGUAGE ARTS & READING GRADES 8-12

### A MINOR IN CURRICULUM AND INSTRUCTION

#### IS REQUIRED FOR THE BACHELOR OF ARTS DEGREE IN ENGLISH LANGUAGE ARTS & READING GRADES 8-12

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <i>World</i> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <i>Society and Self</i> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <i>Health and Fitness</i> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>MAJOR IN ENGLISH LANGUAGE ARTS &amp; READING GRADES 8-12</b>	
(3 hours may also meet general education requirements)	
<u>COURSES</u>	HOURS
ENG 3316	3
ENG 3383	3
ENG 4320	3
READ 3342	3
READ 3338	3
<b>Select 3 hrs from</b> ENG 2310, 2320	3
<b>Select 6 hrs from</b> ENG 4381, 4382, 4384	6
<b>Select 12 hrs from</b> ENG 3310, 3313, 3320, 3330, 3341, 3342, 3371, 3372, 3373, 3374, 3380, 4340	12
<b>Select 3 hrs from</b> ENG 4371, 4372, 4374, 4375	3
<b>TOTAL HOURS</b>	<b>39</b>

<b>MINOR IN CURRICULUM AND INSTRUCTION GRADES 8-12</b>	
<u>COURSE</u>	HOURS
C I 2110 <i>The following CI courses listed in this box require admission to the Teacher Education Program.</i>	1
C I 3301	3
C I 3302	3
C I 4324	3
C I 4325	3
C I 4125	1
C I 4198	1
C I 4602	6
<b>TOTAL HOURS</b>	<b>21</b>

#### **FOREIGN LANGUAGE REQUIREMENT:**

This major requires 1 year of foreign language at the college level, or demonstration of proficiency by taking a CLEP exam or a foreign language proficiency exam. The University foreign language requirement is described on page 34 of the catalog.

## ENGLISH DEPARTMENT MINORS

<b>MINOR IN ENGLISH</b> (Not available for English or English and Writing majors)	
<b><u>COURSE</u></b>	<b>HOURS</b>
ENG 1310	3
ENG 1320	3
ENG 2310	3
ENG 2320	3
<b>Select 9 hrs from</b> Advanced English courses	9
<b>TOTAL HOURS</b>	<b>21</b>

## GEOSCIENCES

Visiting Instructor *Lewis*

### Mission and Goals:

Our mission is to:

1. offer general education courses to support the university.
2. offer courses to support the various majors at the university.

Our goals are to produce students who are:

1. knowledgeable about the scientific method and how it is used.
2. knowledgeable about the earth, its materials and processes.

### Courses Taught:

*GEOG 3330 Biogeography*

*GEOS 1405 Environmental Geology*

*GEOS 1410 Physical Geology*

*GEOS 2420 Meteorology*

*GEOS 3210 Geology of Texas*

*GEOS 3220 Applied Environmental Geology*

## DEPARTMENT OF HISTORY

*Professor Shanafelt, Department Chair*

*Professors Frazier, Hardin*

*Assistant Professor Maberry*

### Mission and Goals:

Graduates of the History Department at McMurry University will demonstrate:

1. Knowledge of core factual data: major U.S. history trends and figures.
2. Knowledge of core factual data: major world history trends and figures.
3. Ability to conduct research, collect data, and analyze and draw conclusions from that data.
4. Basic reading/writing/composition skills.
5. Effective public presentation skills.
6. Personal discipline and study habits.

*Phi Alpha Theta.* Phi Alpha Theta is a history honorary society with chapters on more than 700 campuses across the United States. Membership is based on completion of 2/3 of the course requirements for graduation, rank in the upper 35% of one's class, a 3.0 overall GPA, and at least 12 semester hours of history credit with a 3.1 GPA or better in those courses. Chapter activities include projects and field trips.

*Vernie Newman Award.* This distinction, named after a long-time faculty member, is given annually to the outstanding senior with a major or teaching field in history.

*Departmental Honors.* Please see the description of the Honors Program under the Special Programs section earlier in the catalog.

### Courses Taught in the History Department:

HIST 1310	World Civilization to 1500
HIST 1320	World Civilization Since 1500
HIST 2310	United States to 1877
HIST 2320	United States Since 1865
HIST 2330	Virtue in World History
HIST 2340	Virtue in American History
HIST 3310	Texas
HIST 3314	Spanish Texas
HIST 3315	Texas Revolution and Republic
HIST 3316	Texas from Statehood to National Leadership
HIST 3317	The Crafting of the Texas National Character
HIST 3320	The Grand Tour of Texas
HIST 3331	Modern Britain
HIST 3350	Colonial and Revolutionary America 1607-1789
HIST 3351	The Early American Republic 1787-1848
HIST 3352	Civil War and Reconstruction
HIST 3354	Contemporary United States
HIST 3358	Greece and Rome: Introduction to the Classical World
HIST 3359	The Middle Ages: Crucible of the Western Civilization
HIST 3360	Renaissance and Reformation
HIST 3363	Nineteenth Century Europe
HIST 3364	Twentieth Century Europe
HIST 3375	Mexico
HIST 3377	Historiography and Methods
HIST 432(a-d)	Great Books and History
HIST 4330	The American Frontier
HIST 4345	Special Topics in American History
HIST 4354	The U.S. in the Era of World War
HIST 4360	Russia and the Soviet Union
HIST 4365	Modern Germany
HIST 4375	Special Topics in World History
HIST 4380	Senior Research Seminar
HIST 4X95	Independent Studies
HIST 4X96*	Honors Tutorial
HIST 4X97*	Senior Thesis
TOUR 3340	Heritage Tourism
TOUR 4388	Heritage Tourism Internship

## BACHELOR OF ARTS HISTORY

### A MINOR IS REQUIRED FOR THE BACHELOR OF ARTS DEGREE

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>MAJOR IN HISTORY</b> (3-6 hours may also meet general education requirements)	
<u>HISTORY</u>	HOURS
HIST 1310	3
HIST 1320	3
HIST 2310	3
HIST 2320	3
HIST 3377	3
HIST 4380	3
<b>Select 6 hrs from</b> HIST 3310, 3315, 3316, 3317, 3320, 3350, 3351, 3352, 3354, 4330, 4345, 4354	6
<b>Select 6 hrs from</b> HIST 3314, 3331, 3358, 3359, 3360, 3363, 3364, 3375, 432(a-d), 4360, 4365, 4375	6
<b>Select 6 hrs from</b> Advanced U.S. or World History Courses	6
<b>TOTAL HOURS</b>	<b>36</b>
History 3377 is offered only in the spring semester and should typically be taken at the end of a student's sophomore year. History 4380 is offered only in the fall and should be taken at the start of a student's senior year.	

#### **FOREIGN LANGUAGE REQUIREMENT:**

This major requires 2 years of foreign language at the college level, or demonstration of proficiency by taking a CLEP exam or a foreign language proficiency exam. The University foreign language requirement is described on page 34 of the catalog.

## BACHELOR OF ARTS HISTORY GRADES 8-12

### A MINOR IN CURRICULUM AND INSTRUCTION IS REQUIRED

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * *(for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>HISTORY GRADES 8-12</b> (3-6 hours may also meet general education requirements)	
<u>COURSE</u>	HOURS
HIST 1310	3
HIST 1320	3
HIST 2310	3
HIST 2320	3
HIST 3377	3
HIST 4380	3
<b>Select 6 hrs from</b> HIST 3310, 3315, 3316, 3317, 3320, 3350, 3351, 3352, 3354, 4330, 4345, 4354	6
<b>Select 6 hrs from</b> HIST 3314, 3331, 3358, 3359, 3360, 3363, 3364, 3375, 432(a-d), 4360, 4365, 4375	6
<b>Select 6 hrs from</b> Advanced U.S. or World History Courses	6
<b>TOTAL HOURS</b>	<b>36</b>
HIST 3377: Historiography and Methods is offered only in the spring semester and should typically be taken at the end of a student's sophomore year. HIST 4380: Senior Seminar is offered only in the fall semester and should be taken at the start of a student's senior year.	

<b>MINOR IN CURRICULUM AND INSTRUCTION (GRADES 8-12)</b>	
<u>COURSE</u>	HOURS
CI 2110 <i>The following CI courses listed in this box require admission to the Teacher Education Program.</i>	1
CI 3301	3
CI 3302	3
CI 4324	3
CI 4325	3
CI 4125	1
CI 4198	1
CI 4602	6
<b>TOTAL HOURS</b>	<b>21</b>

#### **FOREIGN LANGUAGE REQUIREMENT:**

This major requires 2 years of foreign language at the college level, or demonstration of proficiency by taking a CLEP exam or a foreign language proficiency exam. The University foreign language requirement is described on page 34 of the catalog.



## BACHELOR OF ARTS SOCIAL STUDIES 8-12

### MINORS IN SOCIAL STUDIES AND CURRICULUM AND INSTRUCTION ARE REQUIRED

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>HISTORY GRADES 8-12</b> (9 hours may also meet general education requirements) *See note on page 144	
<u>COURSE</u>	HOURS
HIST 1310	3
HIST 1320	3
HIST 2310	3
HIST 2320	3
HIST 3377	3
HIST 4380	3
<b>Select 6 hrs from</b> HIST 3310, 3315, 3316, 3317, 3320, 3350, 3351, 3352, 3354, 4330, 4345, 4354	6
<b>Select 6 hrs from</b> HIST 3314, 3331, 3358, 3359, 3360, 3363, 3364, 3375, 432(a-d), 4360, 4365, 4375	6
<b>Select 6 hrs from</b> Advanced U.S. or World History Courses	6
<b>TOTAL HOURS</b>	<b>36</b>

<b>MINOR IN SOCIAL STUDIES GRADES 8-12</b> (Not available for Political Science majors)	
<u>COURSE</u>	HOURS
PSC 2310	3
PSC 2320	3
PSC 3310	3
ECON 2310	3
ECON 2320	3
<b>Select 3 hrs from</b> PSC 4330, 4335	3
<b>Select 3 hrs from</b> PSC 4340, 4350	3
<b>TOTAL HOURS</b>	<b>21</b>

<b>MINOR IN CURRICULUM AND INSTRUCTION (GRADES 8-12)</b>	
<u>COURSE</u>	HOURS
CI 2110 <i>The following CI courses listed in this box require admission to the Teacher Education Program.</i>	1
CI 3301	3
CI 3302	3
CI 4324	3
CI 4325	3
CI 4125	1
CI 4198	1
CI 4602	6
<b>TOTAL HOURS</b>	<b>21</b>

#### **FOREIGN LANGUAGE REQUIREMENT:**

This major requires 2 years of foreign language at the college Level, or demonstration of proficiency by taking a CLEP exam or a foreign language proficiency exam. The University foreign language requirement is described on page 34 of the catalog.

## HISTORY DEPARTMENT MINORS

<b>MINOR IN HISTORY</b>	
(Not available for History, and Social Studies majors) (Not available for MS degrees with Teaching Field in Social Studies)	
<u>COURSE</u>	<u>HOURS</u>
HIST 1310	3
HIST 1320	3
HIST 2310	3
HIST 2320	3
<b>Select 6 hours from</b> Advanced History Electives	6
<b>TOTAL HOURS</b>	<b>18</b>

<b>MINOR IN HERITAGE AND CULTURAL TOURISM</b>	
<u>COURSE</u>	<u>HOURS</u>
ACCT 2310	3
MGMT 3310	3
MKTG 3370	3
TOUR 3340	3
TOUR 4388	3
<b>Select 3 hours from</b> MKTG 3380, 4350, 4380 BA 3350	3
<b>TOTAL HOURS</b>	<b>18</b>

## INTERDISCIPLINARY STUDIES

The Bachelor of Interdisciplinary Studies (BIS) degree is a flexible program allowing students to customize their college degree. It is intended for students who want to obtain broad knowledge through pursuit of three different fields of study. All BIS students complete the regular general education course work but have no traditional major or minor. Instead they complete a set of prescribed courses in each of three different BIS fields of study of their choice, drawn from participating departments from across campus.

BIS fields of study must contain at least nine (9) advanced hours of course work. Departments may offer different course groupings for different BIS fields of study. Double majoring is not an option with this degree, nor is selection of a minor or pursuing a double degree. The BIS degree requires two additional courses, which represent a hybrid of the additional requirements for BA and BS degrees: one semester of college language, and one additional course in a lab science or math (1311 or above). BIS students must also complete a capstone course within one of their fields of study. This capstone is intended to foster the integration of the fields of study into a coherent project that demonstrates depth of learning and interdisciplinary connections.

The following fields of study are available at this time:

- Art
- Administration of Coaching
- Allied Health
- Business
- Christian Ministry
- Early Childhood Education
- Ethics
- History
- Kinesiology
- Multimedia Applications
- Music
- Psychology
- Servant Leadership
- Theatre

The program is administered through the Office of the Vice President for Academic Affairs and Deans Council.

## BACHELOR OF INTERDISCIPLINARY STUDIES

**A MINOR CANNOT BE SELECTED WITH THE BACHELOR OF INTERDISCIPLINARY STUDIES DEGREE**

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

INTERDISCIPLINARY STUDIES	
COURSE	HOURS
Please select <b>three</b> Interdisciplinary <b>Fields of Study</b> from the following page.	54-64
<b>CAPSTONE COURSE</b>	3
<b>SUPPORTING COURSES</b>	
<b>MATHEMATICS / NATURAL SCIENCE (3-4 hrs)</b> Select 3-4 hrs ( <i>not taken in General Education</i> ) from MATH 1311 or higher <b>OR</b> Any Natural Science Course	3-4
<b>FOREIGN LANGUAGE (4 hrs)</b> Select 4 hrs from French, German, Greek, or Spanish	4
<b>TOTAL HOURS Fields of Study + SUPP COURSES</b>	<b>64-75</b>

<b>PLEASE NOTE!</b>
<i>Students cannot select a double degree, double major, or a minor with the Bachelor of Interdisciplinary Studies degree.</i>

<b>FOREIGN LANGUAGE REQUIREMENT:</b>
This major requires one semester of a foreign language at the college level or demonstration of proficiency by taking a CLEP exam or a foreign language proficiency exam. The University foreign language requirement is described on page 34 of the catalog.

## BACHELOR OF INTERDISCIPLINARY STUDIES FIELDS OF STUDY

<b>ART</b>	
<u>COURSE</u>	<u>HOURS</u>
ART 1300	3
ART 1310	3
ART 1313	3
ART 2300	3
<b>Select 9 advanced hrs from</b> ART Electives	9
<b>TOTAL HOURS</b>	<b>21</b>

<b>CHRISTIAN MINISTRY</b>	
<u>COURSE</u>	<u>HOURS</u>
REL 1330	3
REL 2330	3
REL 2340	3
REL 2310	3
REL 3335	3
REL 4388	3
<b>Select 3 hrs from</b> REL advanced courses	3
<b>TOTAL HOURS</b>	<b>21</b>

<b>ALLIED HEALTH</b>	
<u>COURSE</u>	<u>HOURS</u>
BIOL 2401	4
BIOL 2402	4
<b>Select 8 hrs from</b> (CHEM 1405 & 1406) or (CHEM 1410 & 1420)	8
<b>Select 6 hrs from</b> BIOL 3403 BIMS 3430 KINE 3307 KINE 3321 KINE 3331 NURS 3410 MATH 3351	6
<b>TOTAL HOURS</b>	<b>22</b>

<b>EARLY CHILDHOOD EDUCATION</b>	
<u>COURSE</u>	<u>HOURS</u>
READ 3300	3
ECED 3300	3
READ 3315	3
READ 3380	3
C SC 1305	3
<b>Select 3 hrs from</b> ART 3370 KINE 3340 THRE 3360	3
<b>TOTAL HOURS</b>	<b>18</b>

<b>ADMINISTRATION OF COACHING</b> (Cannot be selected with Kinesiology)	
<u>COURSE</u>	<u>HOURS</u>
KINE 2335	3
KINE 3100	1
KINE 3321	3
KINE 4320	3
KINE 4325	3
KINE 4330	3
KINE 4388	3
<b>Select 4 hrs from</b> KINE 2211, 2212, 2213, 2214,	4
<b>TOTAL HOURS</b>	<b>23</b>

<b>ETHICS</b>	
<u>COURSE</u>	<u>HOURS</u>
SLD 1300	3
PHIL 2350	3
REL 3320	3
REL 3330	3
PHIL 3330	3
BA 4385	3
<b>Select 3 hrs from</b> Any Advanced Philosophy Course	3
<b>TOTAL HOURS</b>	<b>21</b>

<b>BUSINESS</b>	
<u>COURSE</u>	<u>HOURS</u>
BA 1310	3
ACCT 2310	3
MGMT 3310	3
MKTG 3370	3
BA 4370	3
<b>Select 3 hrs from</b> ACCT 3305, BA 3350, or any adv. MGMT or MKTG course	3
<b>TOTAL HOURS</b>	<b>18</b>

<b>HISTORY</b>	
<u>COURSE</u>	<u>HOURS</u>
HIST 1310	3
HIST 1320	3
HIST 2310	3
HIST 2320	3
<b>Select 9 hours from</b> Advanced History Electives	9
<b>TOTAL HOURS</b>	<b>21</b>

## BACHELOR OF INTERDISCIPLINARY STUDIES FIELDS OF STUDY

<b>KINESIOLOGY</b> (Cannot be selected with Administration of Coaching)	
<u>COURSE</u>	<u>HOURS</u>
KINE 2330	3
KINE 2335	3
KINE 4388	3
<b>Select 6 hrs from</b> KINE 3321, 3340, 3350, 4320, 4325	6
<b>Select 1 hour from each of the following 3 groups</b> HF 1120-1129 HF 1130-1139 HF 1140-1149	1 1 1
<b>Select 3 hrs advanced Kinesiology</b> KINE 3*, 4*	3
<b>TOTAL HOURS</b>	<b>21</b>

<b>MULTIMEDIA APPLICATIONS</b>	
<u>COURSE</u>	<u>HOURS</u>
ART 1310	3
ART 3330	3
MMA 2310	3
MMA 2340	3
MMA 3310	3
MMA 3320	3
<b>TOTAL HOURS</b>	<b>18</b>

<b>MUSIC</b>	
<u>COURSE</u>	<u>HOURS</u>
MTH 1330 - MTH 1130	4
MTH 1340 - MTH 1140	4
MLH 2380	3
<b>Select 9 hrs from</b> Advanced electives	9
<b>Principal Instrument</b> 4 semesters	4
<b>Ensemble</b> 2 Semesters	2
MUS 1000 - Recital Attendance (minimum of 4 semesters)	0
<b>TOTAL HOURS</b>	<b>26</b>

<b>PSYCHOLOGY</b>	
<u>COURSE</u>	<u>HOURS</u>
PSYC 1340	3
<b>Select 9 hrs from</b> PSYC 2360, 3301, 3320, 3340, 3382, 4300, 4341, 4375	9
<b>Select 6 hrs from</b> Advanced Psychology Electives	6
<b>TOTAL HOURS</b>	<b>18</b>

<b>SERVANT LEADERSHIP</b>	
<u>COURSE</u>	<u>HOURS</u>
SLD 1310	3
HIST 2330 or SOC 2310	3
HIST 2340 or SOC 2320	3
SLD 2310	3
SLD 3310	3
SLD 3320	3
SLD 4388	3
<b>TOTAL HOURS</b>	<b>21</b>

<b>THEATRE</b>	
<u>COURSE</u>	<u>HOURS</u>
THRE 2330	3
THRE 2340	3
THRE 2210	2
THRE 3210	2
THRE 3320	3
<b>Select 6 hrs from</b> Advanced Theatre Electives	6
<b>TOTAL HOURS</b>	<b>19</b>

## DEPARTMENT OF KINESIOLOGY & HEALTH FITNESS

Professor Parris, Department Chair  
Professors Rutledge, Smith  
Assistant Professor Willis  
Instructor McMurray

### Mission and Goals:

The mission and Goals of the Department of Kinesiology and Health Fitness are for students to:

1. Acquire knowledge, attitudes, and habits necessary to maintain health and achieve physical and emotional well-being. Students will learn how to be physically well, develop physical skills, and demonstrate satisfactory competence in a variety of fitness techniques and activities, including adaptations for clients with limited abilities or medical conditions.
2. Think critically and communicate new ideas. Students will actively use intellectual and creative problem-solving during sessions of Kinesiology and Health Fitness courses.
3. Prepare adequately for professional careers related to physical education and exercise science. Students majoring or minoring in Kinesiology programs will project personal goals, investigate career requirements, select appropriate degree plans, and make successful efforts to learn in each course offered by the Department of Kinesiology and Health Fitness.

### Special Programs and Opportunities:

**Kinesiology Klub.** The McMurry Kinesiology Klub is open to all interested students. It is affiliated with the Texas Association for Health, Physical Education, Recreation, and Dance. Activities include programs with guest professionals, field trips to professional meetings and workshops, and fund-raising activities. Qualifying members are inducted each spring into the national fraternity, Phi Epsilon Kappa.

**Departmental Awards.** Each Spring, six awards are presented to outstanding students who are engaged in professional preparation in this department. The Hadley and McCowen Scholarships are awarded to students in the Athletic Training program. The Swagerty, Seidel, Stith, and Feris awards are given to juniors displaying leadership in kinesiology.

**Departmental Honors.** Please see the description of the Honors Program under the Special Program section earlier in the catalog.

### PRE-LICENSE ATHLETIC TRAINING / SPORTS MEDICINE PROGRAM

Advisor: Mrs. Janet McMurray

Admission to the Athletic Training Program is selective, based on application to the program (available online), academic standing, interview with the Head Athletic Trainer, and acceptance from the Head Athletic Trainer to enter the program.

This program has been approved by the Texas State Department of Health for pre-license preparation in athletic training. Students in this program may choose the ESHP athletic trainer concentration, ALL PE certification with Athletic Trainer options, or declare a major outside the Department of Kinesiology and elect to take the course work required by the Texas Department of State Health Services, ([www.dshs.state.tx.us](http://www.dshs.state.tx.us)) to take their respective test for licensure. These requirements will be in addition to other requirements of their chosen degree:

PRE-LICENCE ATHLETIC TRAINING / SPORTS MEDICINE	HOURS
<b>Select 6 hrs from</b> KINE 1121, 1122, 2121, 2122, 3121, 3122, 4121, 4122 (These above labs satisfy the 1800 clock hours of supervised work in the training room required by the state of Texas)	6
KINE 2261	2
KINE 2335	3
KINE 3331	3
KINE 3307	3
KINE 3321	3
KINE 3380	3
KINE 4100	1
KINE 4320	3
KINE 4340	3
BIOL 2401	4
<b>Additional training/certification needed</b> CPR, and First Aid Certification	
<b>TOTAL HOURS</b>	<b>34</b>

### Courses Taught in the Kinesiology Department:

HF 1120	Racquet Sports
HF 1130	Team Sports
HF 1140	Aerobics
HF 1141	Fitness Aquatics
HF 1143	Power Walking
HF 1144	Introductory Jogging
HF 1190	Personal Fitness
HF 1192	Circuit Training
HF 1193	Group Exercise
HF 1200	Fitness For Living Modified
HF 1210	Fitness For Living
HF XX99	Special Topics
KINE 1121-4122	Apprentice Athletic Trainer Laboratory
KINE 2211	Coaching Football
KINE 2212	Coaching Basketball
KINE 2213	Coaching Volleyball
KINE 2214	Coaching Track and Field
KINE 2241	Movement and Rhythmical Activities for Children
KINE 2261	Assessment of Athletic Injuries
KINE 2330	Foundations of Exercise Science
KINE 2335	Accident Prevention and Care of Injuries
KINE 3100	University Interscholastic League Rules
KINE 3230	Adapted Physical Education
KINE 3300	Statistics for Measurement and Evaluation in KINE
KINE 3302	Introduction to Motor Learning
KINE 3307	Nutrition for the Health Sciences
KINE 3310	Exercise Prescription
KINE 3320	Exercise Leadership
KINE 3321	Anatomical Kinesiology
KINE 3325	Biomechanical Kinesiology
KINE 3331	Personal and Community Health
KINE 3340	Instructional Strategies for Elementary School PE
KINE 3350	Instruction Strategies for Secondary School PE
KINE 3380	Therapeutic Modalities and Rehab. of Athletic Injuries
KINE 4100	Applied Pharmacology for Athletic Trainers
KINE 4120	Pedagogical Apprenticeship
KINE 4220	Laboratory Testing in Exercise Science
KINE 4320	Physiology of Exercise
KINE 4325	Risk Management in Exercise Science
KINE 4330	Organization and Administration of Athletics
KINE 4340	Advanced Techniques of Athletic Training
KINE 4388	Internship ( <i>Taken during last semester at McMurry</i> )
KINE 4X95	Independent Studies
KINE 4X96*	Honors Tutorial
KINE XX99	Special Topics

## BACHELOR OF SCIENCE ALL LEVEL PHYSICAL EDUCATION

**A MINOR IN CURRICULUM AND INSTRUCTION IS REQUIRED FOR THE BACHELOR OF SCIENCE DEGREE ALL LEVEL PHYSICAL EDUCATION**

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<u>ALL LEVEL PHYSICAL EDUCATION</u>	HOURS
KINE 2241	2
KINE 2330	3
KINE 2335	3
KINE 3230	2
KINE 3302	3
KINE 3321	3
KINE 3340	3
KINE 3350	3
KINE 4120	1
KINE 4320	3
<b>Select 6 hrs from</b> KINE 3300, 3307, 3310, 3331, 3399, 4325, 4330, 4399 <b>OR</b> KINE 3100 + (2 hrs from KINE 2211, 2212, 2213, 2214)	6
<b>Select 1 course from</b> H F 1200, 1210	2
<b>Select 1 Racquet Sport from</b> H F 1120-1129	1
<b>Select 1 Team Sport</b> H F 1130-1139	1
<b>Select 1 Cardio Sport</b> H F 1140-1149	1
<b>Select 1 HF courses from</b> H F electives	1
<b>TOTAL</b>	<b>38</b>

<b>MINOR IN CURRICULUM AND INSTRUCTION (GRADES 8-12)</b>	
<u>COURSE</u>	HOURS
CI 2110 <i>The following CI courses listed in this box require admission to the Teacher Education Program.</i>	1
CI 3301	3
CI 3302	3
CI 4324	3
CI 4325	3
CI 4125	1
CI 4198	1
CI 4602	6
<b>TOTAL HOURS</b>	<b>21</b>

<b>FOREIGN LANGUAGE REQUIREMENT:</b>
8 hours in a single foreign language will be required unless two years of a single foreign language were completed in high school or the student graduated from high school prior to 1993. The University foreign language requirement is described on page 34 of the catalog.



## BACHELOR OF SCIENCE ALL LEVEL PHYSICAL EDUCATION WITH PRE-LICENSE ATHLETIC TRAINING

**A MINOR IN CURRICULUM AND INSTRUCTION IS REQUIRED FOR THE BACHELOR OF SCIENCE DEGREE ALL LEVEL PHYSICAL EDUCATION**

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * *(for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<u>ALL LEVEL PHYSICAL EDUCATION With Pre-License Athletic Training</u>	HOURS
KINE 2261	2
KINE 3331	3
KINE 2335	3
KINE 3307	3
KINE 3321	3
KINE 3380	3
KINE 4100	1
KINE 4320	3
KINE 4340	3
<b>Select 1 hrs from</b> KINE 4120, 4121, 4122	1
<b>Select 6 hrs from</b> KINE 1121-4122 (6 semesters minimum)	6
<b>Select 8-9 hrs from</b> KINE 2241, 3230, 3302, 3340, 3350	8-9
<b>Select 3 hrs from</b> KINE 3100 + (2 hrs form KINE 2211, 2212, 2213, 2214) OR KINE 4325	3
CPR and ARC First Aid or ECA or EMT (requirement of KINE 2335)	
<b>Select 1 Racquet Sport from</b> H F 1120-1129	1
<b>Select 1 Team Sport</b> H F 1130-1139	1
<b>Select 1 Cardio Sport</b> H F 1140-1149	1
<b>Select 1 HF courses from</b> H F electives	1
<b>TOTAL</b>	<b>46-47</b>

<b>MINOR IN CURRICULUM AND INSTRUCTION (GRADES 8-12)</b>	
<u>COURSE</u>	HOURS
CI 2110	1
<i>The following CI courses listed in this box require admission to the Teacher Education Program.</i>	
CI 3301	3
CI 3302	3
CI 4324	3
CI 4325	3
CI 4125	1
CI 4198	1
CI 4602	6
<b>TOTAL HOURS</b>	<b>21</b>

### **FOREIGN LANGUAGE REQUIREMENT:**

8 hours in a single foreign language will be required unless two years of a single foreign language were completed in high school or the student graduated from high school prior to 1993. The University foreign language requirement is described on page 34 of the catalog.

## BACHELOR OF SCIENCE EXERCISE SCIENCE AND HUMAN PERFORMANCE

**A MINOR IS NOT REQUIRED FOR THE BACHELOR OF SCIENCE DEGREE IN EXERCISE SCIENCE AND HUMAN PERFORMANCE**

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>EXERCISE SCIENCE AND HUMAN PERFORMANCE CORE</b>	
(4 hours may also meet general education requirements)	
<u>EXERCISE SCIENCE &amp; HUMAN PERFORMANCE CORE</u>	HOURS
BIOL 2401	4
KINE 2330	3
KINE 2335	3
KINE 3300	3
KINE 3307	3
KINE 3310	3
KINE 3320	3
KINE 3321	3
KINE 3331	3
KINE 4220	2
KINE 4320	3
KINE 4388	3
<b>TOTAL HOURS</b>	<b>36</b>
<b>Select one Concentration from the following page</b>	<b>30-33</b>
<b>TOTAL HOURS</b>	<b>69</b>

**FOREIGN LANGUAGE REQUIREMENT:**

8 hours in a single foreign language will be required unless two years of a single foreign language were completed in high school or the student graduated from high school prior to 1993. The University foreign language requirement is described on page 34 of the catalog.

## BACHELOR OF SCIENCE EXERCISE SCIENCE AND HUMAN PERFORMANCE CONCENTRATIONS

<b>PRE-LICENSURE ATHLETIC TRAINING CONCENTRATION</b>	
<u>COURSE</u>	<b>HOURS</b>
<b>Select 6 hrs from</b> KINE 1121, 1122, 2121, 2122, 3121, 3122, 4121, 4122 (These above labs satisfy the 1800 clock hours of supervised work in the training room required by the state of Texas)	6
KINE 3325	3
KINE 2261	2
KINE 3230	2
KINE 3380	3
KINE 4100	1
KINE 4325	3
KINE 4340	3
PSYC 1340	3
PSYC elective	3
<b>TOTAL HOURS</b>	<b>29</b>

<b>PRE-PROFESSIONAL CONCENTRATION</b>	
<u>COURSE</u>	<b>HOURS</b>
BIOL 2402	4
BIMS 3430	4
CHEM 1410	4
CHEM 1420	4
PHYS 1410	4
PHYS 1420	4
PSYC 4300	3
KINE 3380	3
KINE 3302	3
<b>TOTAL HOURS</b>	<b>33</b>

<b>PERSONAL AND COMMUNITY FITNESS CONCENTRATION</b>	
<u>COURSE</u>	<b>HOURS</b>
ACCT 2310	3
B A 3350	3
MGMT 3310	3
MKTG 3370	3
PSYC 3340	3
PSYC 3382	3
KINE 4325	3
<b>Select 1 Racquet Sport from</b> H F 1120 - 1129	1
<b>Select 1 Cardio Sport from</b> H F 1140 - 1149	1
<b>Select 1 course from</b> H F 1150 - 1199	1
<b>Select 6 hrs from</b> Upper level KINE electives	6
<b>Select 3 hrs from</b> PSYC 1340, 2360	3
<b>TOTAL HOURS</b>	<b>33</b>

## KINESIOLOGY DEPARTMENT MINORS

<b>MINOR EXERCISE AND SPORTS STUDIES</b> (Not available for ESHP and ALL Level Physical Education majors)	
<b><u>COURSE</u></b>	<b>HOURS</b>
KINE 2330	3
KINE 2335	3
KINE 3321	3
KINE 4320	3
KINE 4388	3
<b>Select 3 hrs from</b> KINE Advanced Electives, to complement career objectives	3
<b>Select 1 Racquet Sport from</b> H F 1120-1129	1
<b>Select 1 Team Sport from</b> H F 1130-1139	1
<b>Select 1 Cardio Sport from</b> H F 1140-1149	1
<b>Select 1 HF courses from</b> H F electives	1
<b>TOTAL HOURS</b>	<b>22</b>

<b>MINOR ADMINISTRATION OF COACHING</b> (Not available for ESHP and ALL Level Physical Education majors)	
<b><u>COURSE</u></b>	<b>HOURS</b>
KINE 2335	3
KINE 3100	1
KINE 3321	3
KINE 4320	3
KINE 4325	3
KINE 4330	3
<b>Select 2 hrs from</b> KINE 2211, 2212, 2213, 2214	2
<b>TOTAL HOURS</b>	<b>18</b>

## DEPARTMENT OF MATHEMATICS

Associate Professor Thornburg, Department Chair  
 Associate Professors Flores, Martin McCoun  
 Instructor Dita, Rieger

### The mission of the department of mathematics is to:

1. Provide a foundation in mathematics that will prepare McMurry mathematics majors for a career or graduate school. We expect such students to be able to:
  - a. Communicate mathematical ideas in a written format.
  - b. Communicate mathematical ideas in an oral format.
  - c. Construct valid mathematical proofs.
  - d. Solve equations of various types.
  - e. Perform valid mathematical computations.
  - f. Use mathematical problem solving techniques.
  - g. Use mathematical modeling techniques.
  - h. Demonstrate an understanding of the basic tools of mathematics.
2. Provide mathematical course offerings that help other departments prepare their majors. We expect such students in these courses to be able to:
  - a. Solve equations of various types.
  - b. Perform valid mathematical computations.
  - c. Use mathematical problem solving techniques.
  - d. Demonstrate an understanding of the basic tools of mathematics covered in the course.
3. Provide courses that are appropriate for the McMurry general education requirements. We expect students in the math portion of the general education to be able to do 3 of the following:
  - a. Be able to solve problems using the techniques from a specific discipline of mathematics.
  - b. Be able to set up and manipulate mathematical models. (Setting up a mathematical model involves taking a situation and describing it in mathematical terms. The mathematical description can then be manipulated to answer questions about the original situation.)
  - c. Demonstrate an understanding of abstract mathematical systems. (Abstract mathematical systems are systems that have been developed as a generalization of some area of mathematics.)
  - d. Be able to apply and symbolically manipulate mathematical functions (such as trigonometric functions).
  - e. Demonstrate an understanding of geometric interpretations of mathematical concepts. (This could be a study of shapes or the study of the impact of shapes to understand some underlying mathematical concept.)

### Special Programs and Opportunities:

**Mathematics Club.** The Mathematics Club is open to all students interested in mathematics. Activities might include programs of special interest, speakers, and field trips.

**Kappa Mu Epsilon.** This is a national honor society for students meeting the necessary academic requirements.

**Departmental Awards.** Each spring, awards are presented to outstanding students at the freshman, sophomore, junior, and senior levels. An outstanding junior is awarded the Jennie Tate and the Clyde A., and Mary Long Scholarship to be used during the student's senior year.

**William Lowell Putnam Competition** A national competition held for students who are recommended by the mathematics faculty. This is held annually the first Saturday of December.

**Departmental Honors.** Please see the description of the Honors Program under the Special Program section earlier in the catalog.

### Courses Taught in the Mathematics Department:

MATH 1311	College Algebra
MATH 1312	Trigonometry
MATH 1315	Contemporary Mathematics
MATH 1320	Pre-calculus
MATH 2315	Discrete Mathematics
MATH 2421	Calculus I
MATH 2322	Calculus II
MATH 2340	Linear Algebra
MATH 3301	Multivariable Calculus
MATH 3302	Intermediate Analysis
MATH 3321	College Geometry
MATH 3330	Teaching Elementary Math I EC-6
MATH 3331	Teaching Elementary Math II EC-6
MATH 3332	Theory of Secondary School Mathematics
MATH 3341	Ordinary Differential Equations
MATH 3351	Statistics
MATH 4301	Advanced Analysis I
MATH 4302	Advanced Analysis II
MATH 4321	Abstract Algebra I
MATH 4322	Abstract Algebra II
MATH 4331	Numerical Analysis with Computer Applications
MATH 4388	Internship
MATH 4X95	Independent Studies
MATH 4X96*	Honors Tutorial
MATH 4X97*	Senior Thesis of Project
MATH XX99	Special Topics

## BACHELOR OF SCIENCE MATHEMATICS

### A MINOR IS REQUIRED FOR THE BACHELOR OF SCIENCE DEGREE IN MATHEMATICS

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>MAJOR IN MATHEMATICS</b> (3-7 hours may also meet general education requirements)	
<u>MATHEMATICS</u>	HOURS
MATH 2315	3
MATH 2421	4
MATH 2322	3
MATH 2340	3
MATH 3302	3
<b>Select 3 hrs from</b> MATH 3301, 3341	3
<b>Select 9 hrs from</b> MATH 4301, 4302, 4321, 4322	9
<b>Select 9 hrs from</b> MATH 3301, 3321, 3341, 3351, 4302, 4322, 4331, 4x95*, 4x99  *Maximum of 3 hours from special topics	9
<b>SUBTOTAL HOURS</b>	<b>37</b>
<b>Supporting Courses</b>	
CSC 1325	3
<b>TOTAL HOURS</b>	<b>40</b>

**FOREIGN LANGUAGE REQUIREMENT:**

8 hours in a single foreign language will be required unless two years of a single foreign language were completed in high school or the student graduated from high school prior to 1993. The University foreign language requirement is described on page 34 of the catalog.

## BACHELOR OF SCIENCE MATHEMATICS GRADES 4-8

**A MINOR IN CURRICULUM AND INSTRUCTION IS REQUIRED FOR THE BACHELOR OF SCIENCE DEGREE IN MATHEMATICS GRADES 4-8**

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>MATHEMATICS GRADES 4-8</b>	
(3-7 hours may also meet general education requirements)	
<u>COURSE</u>	HOURS
MATH 1320	3
MATH 2315	3
MATH 2421	4
MATH 2322	3
MATH 3330	3
MATH 3321	3
MATH 3332	3
MATH 3351	3
Select 3 hrs from MATH 2340, 3302	3
Select 6 hrs from Advanced MATH courses	6
<b>TOTAL HOURS</b>	<b>34</b>

<b>MINOR IN CURRICULUM AND INSTRUCTION (GRADES 4-8)</b>	
<u>COURSE</u>	HOURS
CI 2110	1
<i>The following CI courses listed in this box require admission to the Teacher Education Program.</i>	
CI 3301	3
CI 3302	3
CI 4322	3
CI 4323	3
CI 4123	1
CI 4198	1
CI 4603	6
<b>TOTAL HOURS</b>	<b>21</b>

### **FOREIGN LANGUAGE REQUIREMENT:**

8 hours in a single foreign language will be required unless two years of a single foreign language were completed in high school or the student graduated from high school prior to 1993. The University foreign language requirement is described on page 34 of the catalog.

## BACHELOR OF SCIENCE MATHEMATICS GRADES 8-12

**A MINOR IN CURRICULUM AND INSTRUCTION IS REQUIRED FOR THE BACHELOR OF SCIENCE DEGREE IN MATHEMATICS GRADES 8-12**  
 All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

GENERAL EDUCATION REQUIREMENTS	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <i>World</i> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <i>Society and Self</i> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <i>Health and Fitness</i> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3 6 2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

MATHEMATICS GRADES 8-12	
(3-11 hours may also meet general education requirements)	
COURSE	HOURS
MATH 1320	3
MATH 2315	3
MATH 2421	4
MATH 2322	3
MATH 2340	3
MATH 3302	3
MATH 3321	3
MATH 3332	3
MATH 3351	3
<b>Select 3 hrs from</b> MATH 4301, 4321	3
<b>Select 6 hrs from</b> MATH 3301, 3341, 4301, 4302, 4321, 4322, 4331	6
<b>Select 3 hrs from</b> Advanced MATH courses	3
<b>SUBTOTAL HOURS</b>	<b>40</b>
SUPPORTING COURSES	
C SC 1325	3
PHYS 1410	4
<b>TOTAL HOURS</b>	<b>47</b>

MINOR IN CURRICULUM AND INSTRUCTION (GRADES 8-12)	
COURSE	HOURS
CI 2110 <i>The following CI courses listed in this box require admission to the Teacher Education Program.</i>	1
CI 3301	3
CI 3302	3
CI 4324	3
CI 4325	3
CI 4125	1
CI 4198	1
CI 4602	6
<b>TOTAL HOURS</b>	<b>21</b>

<p><b>FOREIGN LANGUAGE REQUIREMENT:</b>                  8 hours in a single foreign language will be required unless two years of a single foreign language were completed in high school or the student graduated from high school prior to 1993. The University foreign language requirement is described on page 34 of the catalog.</p>
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## MATHEMATICS DEPARTMENT MINORS

<b>MINOR IN MATHEMATICS</b> (Not available for Math majors)	
<b>COURSE</b>	<b>HOURS</b>
MATH 2421	4
MATH 2322	3
MATH 2340	3
<b>Select 3 hrs from</b> MATH 3301, 3341	3
<b>Select 6 hrs from</b> Math electives (a minimum of 3 hrs must be advanced)	6
<b>TOTAL HOURS</b>	<b>19</b>

## DEPARTMENT OF MUSIC

Associate Professor Wilson, Dean of Arts and Letters  
 Associate Professor Wilcox, Division Chair  
 Associate Professor Wallis

### Mission and Goals:

The mission of McMurry University's Music Department is to promote student achievement through programs in the fields of education, performance. Degree programs provide a comprehensive education in music. The Department offers opportunities for students from all disciplines to participate in its programs, and serves as a center for community participation in the arts.

Musical study takes place in an open and supportive atmosphere, enabling students to explore music as an art form, and serving as preparation for professional development in musical employment.

The general academic requirements for admission to the Music Department degree program are the same as those required for admission to the other degree courses of McMurry University. Additional requirements established by the Department of Music are listed below.

### Special Programs and Opportunities:

The Music Department provides a number of performance opportunities for all students attending McMurry University. As a general rule, membership in any performing ensemble is gained through audition with the particular instructor directing the ensemble. Further details regarding credit and requirements can be found herein under Applied Music.

*Texas Music Educators Association (TMEA) and Texas Music Educators Conference (TMEC) Collegiate Student Chapter.* These organizations are directly associated with MENC (Music Educators National Conference). The organization offers music students opportunities to enhance their understanding of all aspects of music education—general, choral and instrumental.

*Departmental Honors.* Please see the description of the Honors Program under the Special Program section earlier in the catalog.

### Requirements for Degrees in MUSIC (BA, BMED):

McMurry University offers the Bachelor of Arts Degree in Music and the Bachelor of Music Education degree. In addition to completing the coursework described under "Courses of Study" and under "Degree Outlines," candidates seeking degrees in Music must meet certain performance, grade, and attendance requirements. Please refer to the Music Department Student Handbook for further detail on requirements.

- 1. Entry Audition.** Each potential Music major must audition and be approved by 3 members of the Music Faculty before registering for music coursework. Approval of the Music Department Faculty is required to declare a Music Major.
- 2. Transfer Students.** Students who transfer from other institutions must have their previous coursework credits evaluated by the Music Department and must audition in order that their placement in the Music program can be determined.
- 3. Ensemble.** All Music majors and minors must be enrolled in a major ensemble each semester they are registered in coursework leading to a major or minor in music (except during the semester of student teaching)
- 4. Applied Lessons.** All Music majors must be enrolled in their specific applied instrument each semester until completion of their recital requirement.
- 5. Juries and Sophomore Proficiency Exam.** All Music majors are required to pass a jury at the end of each semester as part of the Applied Music requirement in their principal instrument or voice. The jury will be comprised of members of the music faculty. The jury at the end of the sophomore year or fourth semester constitutes a sophomore proficiency exam, and students must successfully pass this jury before taking senior-level applied music lessons. Specific skills and proficiencies necessary to pass the sophomore

proficiency exam are determined by the music faculty according to the area. (Refer to the music department student handbook for details.)

- 6. Music Hours.** Music hours are the recital experience ("lab") for all Applied Music study. Music students under the direction of their instructors should plan to perform at Music Hours. Music Hour attendance is also mandatory for Music majors and is monitored through MUS 1000: Recital Attendance.
- 7. Piano Proficiency.** All Music majors must complete and pass a minimum of two semesters of piano study. Additionally, Music majors are required to demonstrate a piano proficiency administered incrementally at the end of each semester of piano study. The piano proficiency requirements determined by the Music Faculty are found in the Department of Music Student Handbook. Private piano lessons may be substituted for any or all of the class piano requirements at the discretion of the piano faculty. Music majors are required to take piano each semester until their proficiency is satisfied. Passage of the piano proficiency is a prerequisite for registration for a recital.
- 8. Recital.** Students are required by their degree plans to perform a recital in their senior year. Prior to enrolling for recital credit, the student must pass the sophomore and piano proficiencies. Students will be required to perform a minimum of 30 minutes of music at the discretion of their applied instructor. In addition to a degree recital, students can choose to perform a non-degree recital during their junior year of study with the approval of their applied instructor. In order to be eligible for any public recital, students must pass a recital hearing which will be performed privately for a faculty jury at least two weeks prior to the recital date. (Procedures related to recital scheduling can be found in the Music Department Student Handbook). This is the capstone course for the BA in Music.
- 9. Grade Point Requirements.** Any Music major must maintain at least a 2.0 average grade point in all Music coursework during the first sixty (60) hours of study at McMurry University. At the discretion of the Music faculty, Music majors who fail to achieve a 2.0 average grade point for any two consecutive semesters of Applied Music study in their principal instrument or voice will be advised to pursue another major or another concentration.
- 10. Attendance.** All music majors are required to accumulate a certain number of points each semester by attending recital and concerts on and off campus. Students are expected to attend as many McMurry recitals, concerts, and music hour performances as possible. Attendance is monitored through enrollment in MUS 1000. A list of required events will be published at the beginning of each semester.

### APPLIED MUSIC (MUA)

There are two types of activities involved in the area of Applied Music: music lessons and music ensembles.

A Voice	J Trumpet
B Piano	K Horn
C Organ	L Trombone
D Flute	M Baritone
E Oboe	N Tuba
F Clarinet	P Percussion
G Saxophone	S Strings
H Bassoon	X Special Lessons

Prerequisite for Applied Music lessons in organ include a demonstrable keyboard proficiency (to the level of performance of a Bach two-part invention or easier classical sonatina) and permission of instructor.

One hour credit music lessons involve a single half-hour lesson per week. Two-hour credit Applied Music lessons involve either a single hour lesson per week or two half-hour lessons per week. Class piano is designed for beginning piano students including both Music majors and non-majors. It is designed to satisfy the Music Department piano proficiency requirements for Music majors. Class piano, offered in a four semester sequence, is numbered as follows: 1113, 1114, 1115, 1116. All class piano students must enroll for the courses in sequence. Advanced placement will be determined by the piano faculty of the Music Department. Each music ensemble is assigned an individual course number, and students receive one hour of credit per semester for any ensemble regardless of the amount of actual rehearsal and performance time required.

Membership in music ensembles is open to anyone, but students must receive permission of instructor before enrolling for credit.

0111 Marching Band	0112 Wind Ensemble
0113 Symphonic Band	0120 Chanters
0122 McM Sounds	0135 Percussion Ensemble
0140 Woodwind Ensemble	0145 Brass Ensemble
0150 Jazz Ensemble	0155 Opera Workshop

### Courses Taught in the Music Department:

MLH 2301	Music Appreciation
MLH 2380	Introduction to Music History
MLH 3375	Western Music 1450-1800
MLH 3380	Western Music 1800-Present
MLH 4X95	Independent Studies
MLH XX99	Special Topics

MTH 1130	Aural Skills I
MTH 1140	Aural Skills II
MTH 1330	Theory I
MTH 1340	Theory II
MTH 3130	Aural Skills III
MTH 3140	Aural Skills IV
MTH 3330	Theory III
MTH 3340	Theory IV
MTH 4210	Forms and Styles
MTH 4250	Orchestration and Arranging
MTH 4X95	Independent Studies

MUA 0111	Marching Band
MUA 0112	Wind Ensemble
MUA 0113	Symphonic Band
MUA 0120	Chanters
MUA 0122	McM Sounds
MUA 0135	Percussion Ensemble
MUA 0145	Brass Ensemble
MUA 0150	Jazz Ensemble
MUA 0155	Opera Workshop
MUA 1113	Class Piano I
MUA 1114	Class Piano II
MUA 1115	Class Piano III
MUA 1116	Class Piano IV

MUED 1305	Introduction to Music Education
MUED 3113	string Techniques and Methods
MUED 3114	Flute and Saxophone Methods
MUED 3115	Clarinet and Double Reed Methods
MUED 3116	High Brass Methods
MUED 3117	Low Brass Methods
MUED 3118	Percussion Techniques and Methods I
MUED 3119	Percussion Techniques and Methods II
MUED 3220	Fundamentals of Conducting
MUED 3221	Advanced Instrumental Conducting
MUED 3222	Advanced Choral Conducting
MUED 3230	Survey of Elementary Materials
MUED 3235	Vocal Pedagogy
MUED 3250	Marching and Jazz Methods
MUED 3291	Singer's Diction I
MUED 3292	Singer's Diction II
MUED 4200	Music Teaching Practicum I
MUED 4210	Music Teaching Practicum II
MUED 4X95	Independent Studies
MUED XX99	Special Topics

MUS 1000	Recital Attendance
MUS 2000	Applied Proficiency
MUS 2001	Keyboard Proficiency
MUS 4000	Senior Recital

## BACHELOR OF ARTS MUSIC

### A MINOR IS REQUIRED FOR THE BACHELOR OF ARTS DEGREE

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3     6   2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

MAJOR IN MUSIC	
<u>MUSIC</u>	HOURS
MTH 1330 - MTH 1130	4
MTH 1340 - MTH 1140	4
MTH 3330 - MTH 3130	4
MTH 3340 - MTH 3140	4
MLH 2380	3
MLH 3375	3
MLH 3380	3
MUA 1113	1
MUA 1114	1
MUA 1115	1
MUA 1116	1
MUS 1000—Recital Attendance (Enroll for 8 Semesters)	0
MUS 2000 Applied Proficiency	0
MUS 2001 Keyboard Proficiency	0
Ensembles (Enroll for 8 semesters) <i>It may be necessary, as determined by the Music department, for BA majors to take 8-16 hours of ensembles.</i>	8
Principal Instrument (Enroll for 8 Semesters) (Must include 4 advanced semesters) <i>It may be necessary, as determined by the Music department, for BA majors to take 8-16 hours of applied principal instrument.</i>	8
MUS 4000 Senior recital	0
<b>TOTAL HOURS</b>	<b>45</b>

#### **FOREIGN LANGUAGE REQUIREMENT:**

This major requires 1 year of foreign language at the college Level, or demonstration of proficiency by taking a CLEP exam or a foreign language proficiency exam. The University foreign language requirement is described on page 34 of the catalog.

# BACHELOR OF MUSIC EDUCATION INSTRUMENTAL EMPHASIS

Music

*This Degree is considered a 4½ - 5 year degree program*

**A MINOR IN CURRICULUM AND INSTRUCTION IS REQUIRED FOR THE BACHELOR OF MUSIC EDUCATION DEGREE**

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

GENERAL EDUCATION REQUIREMENTS	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <i>World</i> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <i>Society and Self</i> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <i>Health and Fitness</i> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3 6 2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

INSTRUMENTAL EMPHASIS	
MUSIC EDUCATION	HOURS
MTH 1330 - MTH 1130	4
MTH 1340 - MTH 1140	4
MTH 3330 - MTH 3130	4
MTH 3340 - MTH 3140	4
MTH 4210	2
MTH 4250	2
MLH 2380	3
MLH 3375	3
MLH 3380	3
MUED 1305	3
MUED 3113	1
MUED 3220	2
MUED 3221	2
MUED 3230	2
MUED 3235	2
MUED 3250	2
MUED 4200	2
MUED 4210	2
<b>Select 5 hours (exclude class with major instrument)</b> MUED 3114, MUED 3115, MUED 3116, MUED 3117 MUED 3118, MUED 3119	5
MUA 1113, 1114, 1115, 1116	4
MUS 1000—Recital Attendance (Enroll for 7 Semesters)	0
MUS 2000 Applied Proficiency	0
MUS 2001 Keyboard Proficiency	0
Ensembles (Enroll for 7 semesters) <i>It may be necessary, as determined by the Music department, for BME majors to take 7-14 hours of ensembles.</i>	7
Principal Instrument (Enroll for 7 Semesters, 3 semesters must be advanced) <i>It may be necessary, as determined by the Music department, for BME majors to take 7-14 hours of applied principal instrument.</i>	7
MUS 4000 Senior recital	0
<b>TOTAL HOURS</b>	<b>70</b>

MINOR IN CURRICULUM AND INSTRUCTION	
COURSE	HOURS
CI 2110 <i>The following CI courses listed in this box require admission to the Teacher Education Program.</i>	1
CI 3301	3
CI 3302	3
CI 4324	3
CI 4325	3
CI 4125	1
CI 4198	1
CI 4602	6
<b>TOTAL HOURS</b>	<b>21</b>

FOREIGN LANGUAGE REQUIREMENT:
8 hours in a single foreign language will be required unless two years of a single foreign language were completed in high school or the student graduated from high school prior to 1993. The University foreign language requirement is described on page 34 of the catalog.

## BACHELOR OF MUSIC EDUCATION CHORAL EMPHASIS

*This Degree is considered a 4½ - 5 year degree program*

**A MINOR IN CURRICULUM AND INSTRUCTION IS REQUIRED FOR THE BACHELOR OF MUSIC EDUCATION DEGREE**

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> <b>Select 3 hrs from</b> HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> <b>Select 3 hrs from</b> MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> <b>Select 3 hrs from</b> BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> <b>Select 3 hrs from</b> REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> <b>Select 3 hrs from</b> ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <b>World Select 3 hrs from</b> ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <b>Society and Self Select 6 hrs from two disciplines</b> ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <b>Health and Fitness Select 2 hrs from</b> H F 1210 H F 1200 * <i>*(for students age 30 or above, or medical exemption)</i>	3 6 2
<b>NATURAL SCIENCE (4 hrs) (as required by major)</b> <b>Select 4 hrs from</b> BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>CHORAL EMPHASIS</b>	
<u>MUSIC EDUCATION</u>	HOURS
MTH 1330 - MTH 1130	4
MTH 1340 - MTH 1140	4
MTH 3330 - MTH 3130	4
MTH 3340 - MTH 3140	4
MTH 4210	2
MTH 4250	2
MLH 2380	3
MLH 3375	3
MLH 3380	3
MUED 1305	3
MUED 3113	1
MUED 3220	2
MUED 3222	2
MUED 3230	2
MUED 3235	2
MUED 3291	2
MUED 3292	2
MUED 4200	2
MUED 4210	2
<b>Select 1 course from each group (3 hrs)</b> (MUED 3114, MUED 3115) (MUED 3116, MUED 3117) (MUED 3118, MUED 3119)	3
<b>Select 2 hrs from</b> (not previously selected above) (MUED 3114,3115,3116,3117,3118,3119)	2
MUA 1113, 1114, 1115, 1116	4
MUS 1000—Recital Attendance (Enroll for 7 Semesters)	0
MUS 2000 Applied Proficiency	0
MUS 2001 Keyboard Proficiency	0
Ensembles (Enroll for 7 semesters)	7
Voice (Enroll for 7 Semesters, 3 semesters must be advanced) <i>It may be necessary, as determined by the Music department, for BME majors to take 7-14 hours of applied vocal.</i>	7
MUS 4000 Senior recital	0
<b>TOTAL HOURS</b>	<b>72</b>

<b>MINOR IN CURRICULUM AND INSTRUCTION</b>	
<u>COURSE</u>	HOURS
CI 2110	1
<b>The following CI courses listed in this box require admission to the Teacher Education Program.</b>	
CI 3301	3
CI 3302	3
CI 4324	3
CI 4325	3
CI 4125	1
CI 4198	1
CI 4602	6
<b>TOTAL HOURS</b>	<b>21</b>

<b>FOREIGN LANGUAGE REQUIREMENT:</b>
8 hours in a single foreign language will be required unless two years of a single foreign language were completed in high school or the student graduated from high school prior to 1993. The University foreign language requirement is described on page 34 of the catalog.

## MUSIC DEPARTMENT MINORS

<b>MINOR IN MUSIC</b> (not available for Music majors)	
<b><u>COURSE</u></b>	<b>HOURS</b>
MTH 1330 - MTH 1130	4
MTH 1340 - MTH 1140	4
MLH 2380	3
<b>Select 6 hrs from</b> Advanced electives	6
<b>Principal Instrument</b> 4 semesters	4
<b>Ensemble</b> 2 Semesters	2
MUS 1000 - Recital Attendance (minimum of 4 semesters)	0
<b>TOTAL HOURS</b>	<b>23</b>

## PATTY HANKS SHELTON SCHOOL OF NURSING

Associate Professor Ouimette, Dean Of School of Nursing

McM Box 686  
Abilene, TX 79697  
Offices are located at:  
Patty Hanks Shelton School of Nursing  
2149 Hickory Street  
Abilene, TX 79601  
Phone: (325) 671-2399  
Fax: (325) 671-2386

McMurry University is a part of a three-member consortium which provides collegiate nursing education in Texas. Through the Patty Hanks Shelton School of Nursing (PHSSN), McMurry offers the Bachelor of Science in Nursing degree.

### Faculty

*Professors:* Toone  
*Associate Professors:* Ouimette, Tyler, Viola  
*Assistant Professors:* Cooper, Miller, Murphy, Stafford, Tucker, Van Cleave  
*Instructors:* Asbury, Castel, Cheek, Hayes, King, Naldoza, Smola

### Mission Statement

The mission of the Patty Hanks Shelton School of Nursing is to educate baccalaureate and advanced practice nurses for lives of Christian service and leadership to meet the ever changing health care needs of a global society.

### Purpose/Introduction

Baccalaureate education in nursing prepares the graduate to function as a registered nurse who can effectively participate as a change agent in the delivery of a broad spectrum of health services required by society today and in the future. It also provides the foundation required for graduate education. The School of Nursing exists for the purpose of preparing entry-level practitioners of nursing whose personal, social, and nursing potentials have been developed to provide a foundation for continued learning and growth. The theoretical courses and clinical experiences are designed to assist students to develop understanding and conceptual integration of the nursing role in today's complex health care environment.

The Faculty of the School of Nursing exists for the purpose of contributing to excellence in nursing, the body of knowledge needed for nursing practice, teaching, research and public services. Additionally, the faculty provides for the nursing student an environment in which classroom theory may be applied and evaluated under close supervision. The aim of the BSN Faculty of the School of Nursing is to prepare students who satisfactorily complete all undergraduate requirements in the School of Nursing and who will graduate with the Bachelor of Science Degree in Nursing (BSN). Upon graduation, the graduate is eligible to write the NCLEX-RN (National Council of Licensure Examination for Registered Nurses) that leads to licensure as a Registered Nurse (R.N.).

**Program Outcomes:** Upon completion of this program the graduate will be prepared to:

1. Use the nursing process as a guide to competently deliver holistic (physical, psychosocial, and spiritual), ethno-culturally sensitive, ethical and evidence-based nursing care to clients across the life span in a variety of settings.
2. Demonstrate integrity, responsibility and accountability to clients, other health care workers and the profession of nursing in political, legal and ethical issues.
3. Communicate effectively with clients and other members of the health care team.

4. Demonstrate leadership and management skills in the delivery of health care services and the practice of professional nursing.
5. Use research findings and community resources in interacting with clients to promote wellness and facilitate restoration of health or a dignified death.
6. Accept accountability for practice behaviors, action and responsibility for life long personal and professional development.

### Accreditation

The School of Nursing programs are accredited by the Texas Board of Nursing and the graduate is eligible to sit for the National Council State Boards of Nursing Exams for licensure as a Registered Nurse (NCLEX-RN), pending eligibility. The baccalaureate program is accredited by the Commission on Collegiate Nursing Education (CCNE). The School of Nursing is a member of the Southern Regional Education Board, the Southern Council on Collegiate Education in Nursing; and the American Association of Colleges of Nursing.

### High School Preparation

High school students wishing to major in nursing are advised that their preparation for nursing study will be strengthened by inclusion of high school credits of one unit each in chemistry, physics, and biology; three-four units in mathematics; two units each in social and behavioral sciences; and four units in English.

### Lower-Division Requirements

All freshman students accepted for admission in the consortium institutions, and stating a preference for nursing as a major, will be placed in lower-division core courses. Acceptance into the lower-division courses, however, does not guarantee that students will be selected for enrollment in Patty Hanks Shelton School of Nursing (PHSSN). Students having an ACT composite score of 18 or less should seek career counseling.

### PHSSN Admission Requirements

Students must meet all parent university degree requirements. A separate admission process is required for students to be admitted to the School of Nursing. Admission is competitive, and the size of the classes is determined by the availability of space and clinical facilities.

1. The School of Nursing will review all applications with a minimum cumulative grade point average (GPA) of 3.00 in the lower-division nursing curriculum based on a 4.0 scale. Nursing core courses completed with a letter grade less than C, or 2.00 on a 4.00 scale, will not be accepted toward the Bachelor of Science in Nursing degree. The selection process of the School of Nursing is highly competitive.
2. Students are also required to take a Nursing Entrance Exam.
3. Students are required to submit two recommendation forms from faculty who have taught the student a nursing core prerequisite.
4. Students must have all nursing core prerequisites completed before entering the School of Nursing.
5. Students must complete BIOL 2401 Anatomy and Physiology I, BIOL 2402 Anatomy and Physiology II, and NURS 3410 Pathophysiology with a grade of at least 'B' before beginning upper division courses at PHSSN.
6. Students must apply for admission to the School of Nursing. The deadline for submitting application for admission in the fall semester is the first week of February of the same year. Applicants are required to have personal contact with the School of Nursing Director of Learning and Student Development by January 1.
7. Once accepted, students must submit evidence of physical examination and of physical health, which is consistent with meeting the objectives of the program. Tetanus, diphtheria, and hepatitis B immunizations are required. If not administered, a health care provider's statement is required. Rubella screening is required and immunizations required if screening titer indicates lack of immunity. Evidence of negative tuberculosis must be presented prior to beginning nursing coursework. Health reports and test results will be available to health agencies used for student learning experience upon request by an authorized representative of the agency.
8. All students are required to have a urine drug screen completed at a designated lab prior to clinical participation.
9. All students must submit to a criminal background check through a designated agency.



10. Students who have any physical or learning disability (i.e. ADD, ADHD) must provide official written medical documentation of the disability and information in regard to his/her ability to meet the requirements of the program. Parent institution guidelines must be followed.
11. Throughout the program, students must maintain a level of mental and physical health consistent with meeting the objectives of the curriculum. If a mental and/or physical health problem occurs during the student's educational program in nursing, the nursing faculty members responsible for clinical practice will assess the student's ability to continue in the program and will make recommendations for action to the Dean.
12. Students accepted into the PHSSN are responsible for providing their own transportation to class and all clinical facilities.
13. Students accepted into PHSSN must annually provide proof of medical health insurance. If not on parent's insurance, the student must have a private policy.
14. Students must achieve a grade of C (grade of 75 on a 100 scale) or better in each upper-division nursing course attempted and in addition achieve an average of C (grade of 75 on a 100 scale) or better on examinations within each upper-division nursing course in order to continue in the School of Nursing.
15. Applicants seeking admission by transfer must meet all published standards.
16. If the student's performance is unsatisfactory in the clinical setting, the faculty may recommend immediate dismissal to the Dean.
17. The student must annually provide proof of current CPR certification. The student will not be allowed in the classroom or clinical area without this certification. American Heart Association CPR for Health Care Provider or American Red Cross CPR for the Professional Rescuer is required. (National Safety Council, Heart Saver, & Heart Saver Plus are not acceptable).
18. Professional liability insurance is required of each student. This insurance is included in the student's tuition and fees.
19. All PHSSN entering students are required to purchase physical assessment equipment that is supplied through the PHSSN. The cost of the equipment will be charged as a fee for the Health Assessment course.
20. BSN nursing students are required to take diagnostic program examinations each semester. The cost of the examinations will be announced, and the cost will be charged to student's parent university account.
21. In order for a student to meet program requirements for the completion of the BSN curriculum, the student must demonstrate minimal competency in nursing theory and practice. This competency is demonstrated through successful scoring on the identified exit exam. Successful scoring on this examination is a portion of the course requirements for the course NURS 4453.
22. Students seeking the Bachelor of Science in Nursing (BSN) may take a minor outside the School of Nursing. This minor is NOT required as a part of the BSN degree, and credit hours beyond the minimum hours required may be needed to complete the minor.

#### Degree Requirements-Lower-Division Courses SUGGESTED COURSE SEQUENCE

**NOTE: THE COURSE SEQUENCE BELOW IS SUGGESTED FOR A FOUR YEAR PROGRESSION THROUGH THE PROGRAM. HOWEVER, WE ENCOURAGE STUDENTS TO CONTACT OUR DIRECTOR OF LEARNING AND STUDENT DEVELOPMENT TO INQUIRE ABOUT OUR 5-6 YEAR PROGRESSION SCHEDULE FOR PART-TIME OR TRANSFER STUDENTS.**

#### FRESHMAN YEAR

Fall Semester		Credit Hours
Chem 1405*	Fund. Of Biological Chem. I	4
Comm 1310	Principles of Communication	3
Math 1311*	Algebra	3
Eng 1310	Composition & Rhetoric	3
Acad 1200	Freshman Seminar	2
H F 1210	Fitness for Living	2
	Total Credit Hours	17

#### Spring Semester

Chem 1406*	Fund. Of Biological Chem. II	4
Fine Arts	3 hour Fine Arts Requirement	3
Eng 1320	Composition & Literature	3
Biol 3403*	Foundations of Microbiology	4
SOC 2300*	Introduction to Sociology	3
	Total Credit Hours	17

#### SOPHOMORE YEAR

##### Fall Semester

Biol 2401**	Anatomy and Physiology I	4
Psyc 1340*	Introduction to Psychology	3
Math 3351	Statistics	3
Rel	Religion 1330, 2330, or 2340	3
Critical Reasoning	3 hour Critical Reasoning Requirement	3
	Total Credit Hours	16

##### Spring Semester

Biol 2402**	Anatomy & Physiology II	4
Psyc 2360*	Developmental Psychology	3
Nurs 3410***	Pathophysiology	4
L.E.V.	3 hours L.E.V. Requirement	3
	Total Credit Hours	14

#### SPRING OR SUMMER

Nurs 2301*	Intro to Nursing Skills	3
Nurs 3324*	Dimensions of Nursing (online)	3
	Total Credit Hours	6

#### \*NURSING CORE COURSES REQUIRING A GRADE OF "C-" OR BETTER

#### \*\*NURSING CORE COURSES REQUIRING A GRADE OF "B-" OR BETTER

#### \*\*\*NURSING CORE COURSES REQUIRING A GRADE OF "B" OR BETTER

#### Baccalaureate Degree Courses

Admission to the School of Nursing is a prerequisite to all Nursing courses (or approval by the School of Nursing Dean) **ACCEPTANCE INTO THE LOWER-DIVISION COURSES DOES NOT GUARANTEE THAT STUDENTS WILL BE SELECTED FOR ENROLLMENT INTO THE SCHOOL OF NURSING.**

Note: Curriculum is currently under revision.

#### JUNIOR YEAR (NURS)

Fall Semester		Credit Hours
3421	Health Assessment	4
3622	Nursing Process I	6
3323	Pharmacology	3
	Total Credit Hours	13

#### JUNIOR YEAR

##### Spring Semester

3836	Nursing Process II	8
3335	Mental Health Nursing	3
437X	3 hours elective	3
	Total Credit Hours	14

#### SENIOR YEAR

##### Fall Semester

4846	Nursing Process III	8
4343	Nursing Theories and Research	3
4335	Community Nursing	3
	Total Credit Hours	14

#### SENIOR YEAR

##### Spring Semester

4651	Nursing Process IV	6
4352	Leadership and Management	3
4453	Professional Nursing Practicum	4
	Total Credit Hours	13

## Nursing

### ARTICULATION PROGRAM FOR REGISTERED NURSES

#### ADMISSION REQUIREMENTS

Before being admitted to the nursing program, a student must be admitted to McMurry and satisfy their admission requirements. In addition, a separate admission process is required for students to be admitted to the School of Nursing. **ACCEPTANCE INTO THE LOWER-DIVISION COURSES DOES NOT GUARANTEE THAT STUDENTS WILL BE SELECTED FOR ENROLLMENT INTO THE SCHOOL OF NURSING.**

The selection process for admission to the School of Nursing is highly competitive. The selection process is based on your cumulative GPA if all schools attended. The available seats will be given to those scoring the highest on these criteria. The School of Nursing will review all applicants with a minimum cumulative grade point average (GPA) of 2.50. Applicants seeking admission by transfer must meet all the standards required by the university. Nursing core courses completed with a letter grade of less than C will not be accepted toward the RN Articulation Baccalaureate Programs.

#### APPLICATION PROCESS:

**To make application the student must be admitted and have completed 45 semester hours of nursing prerequisites. Any remaining prerequisites must be completed prior to the start of the Fall semester of the senior year.**

Applicants must make personal contact with the PHSSN Director of learning and Student Development prior to January 1st. **The deadline for submitting applications is the first week of April.** Included with the application must be official transcript(s) of all colleges attended, including a McMurry transcript. It is the student's responsibility to secure the documentation of any CLEP or Departmental Examination credit on their transcript prior to the application deadline date. Applicants will be notified of their acceptance or non-acceptance in June.

#### Students accepted to the RN-BSN Articulation program are required to have:

1. Been accepted to McMurry and all entrance requirements applicable to the traditional BSN student apply to the registered nurse student.
2. A current unencumbered Texas RN License and in good standing with the Texas Board of Nurse Examiners.
3. Current CPR certification; American Heart Association CPR for Health Care Provider required.
4. A current physical examination (form provided by PHSSN with application).
5. Proof of successful completion of a Physical Assessment Course approved by the Texas Board of Nurse Examiners.
6. Students must also achieve a total percentile score of 75 or greater on the HESI RN-Specialty Health Assessment exam.
7. Demonstrate competence through head to toe physical exam observed by faculty.
8. Successfully passed the HESI RN-Specialty RN-BSN exam administered by the School of Nursing. Successful completion of examination will earn 29 hours of upper-division nursing credit. The examination must be taken prior to the fall semester in which the registered nurse will enter the School of Nursing. It is highly recommended that students take the Mobility exam before starting any of their work for the Baccalaureate degree.
9. Associate of Science Degree in Nursing or Diploma from an accredited program.
10. 25% of remaining courses needed for degree at McMurry.

### RN ARTICULATION COURSES SENIOR YEAR

**NOTE: Students attending McMurry must fulfill the general education requirements set forth for the traditional BSN student.**

#### SPRING

Credit Hours	
NURS 3410 Pathophysiology (offered Spring or Summer)	4
NURS 3323 Pharmacology	3
NURS 3421 Health Assessment	4
NURS 3335 Mental Health Nursing	<u>3</u>
Total Credit Hours	14

\*\*Students may either receive transfer credit, challenge the course, or enroll in course to receive credit for the course.

#### FALL

NURS 4661 Evidence Based Practice I	6
NURS 4360 Professional Nursing	3
NURS 4343 Nursing Theories and Research	<u>3</u>
Total Credit Hours	12

#### SPRING

NURS 4662 Evidence Based Practice II	6
NURS 4352 Leadership and Management	3
NURS 4335 Community Nursing	<u>3</u>
Total Credit Hours	12

#### Courses Taught at the School of Nursing:

NURS 2301	Introduction to Nursing Skills
NURS 3323	Pharmacology
NURS 3324	Dimensions of Nursing
NURS 3335	Mental Health Nursing
NURS 3410	Pathophysiology
NURS 3421	Health Assessment
NURS 3622	Nursing Process I
NURS 3836	Nursing Process II
NURS 4335	Community and Public Health Nursing
NURS 4343	Nursing Theories and Research
NURS 4352	Leadership and Management
NURS 4360	Professional Nursing
NURS 4370	Lab and Diagnostics Lab and Diagnostics Studies
NURS 4371	Health Care Missions
NURS 4372	Perioperative Nursing
NURS 4373	Care of the Terminally Ill
NURS 4453	Professional Nursing Practicum
NURS 4651	Nursing Process IV
NURS 4661	Evidence Based Practice I
NURS 4662	Evidence Based Practice II
NURS 4846	Nursing Process III

## BACHELOR OF SCIENCE NURSING

### A MINOR IS NOT REQUIRED FOR THE BACHELOR OF SCIENCE DEGREE IN NURSING

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> MATH 1311 *	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301 THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> PSYC 1340* PSYC 2360* SOC 2300*	3 3 3
Select 2 hrs from H F 1210 H F 1200 (students age 30 and above, or medical exemption)	2
<b>NATURAL SCIENCE (4 hrs)</b> BIOL 2401**	4
<b>TOTAL HOURS*</b>	<b>39</b>

<b>MAJOR IN NURSING</b>	
A grade of C- or better required in all courses listed below (3 hours may also meet general education requirements)	
<u>NURSING COURSES</u>	HOURS
NURS 2301*	3
NURS 3324*	3
NURS 3410*** (Course must be taken in the Spring or Summer term just prior to starting Nursing School)	4
<b>Junior Year Fall Semester</b>	
NURS 3421	4
NURS 3622	6
NURS 3323	3
<b>Junior Year Spring Semester</b>	
NURS 3836	8
NURS 3335	3
NURS Upper Level Elective	3
<b>Senior Year Fall Semester</b>	
NURS 4846	8
NURS 4343	3
NURS 4335	3
<b>Senior Year Spring Semester</b>	
NURS 4651	6
NURS 4352	3
NURS 4453	4
<b>SUBTOTAL HOURS</b>	<b>64</b>
<b>SUPPORTING COURSES</b>	
<u>COURSE</u>	HOURS
MATH 3351*	3
BIOL 2402**	4
CHEM 1405*	4
CHEM 1406*	4
BIOL 3403*	4
<b>TOTAL HOURS</b>	<b>83</b>

#### **FOREIGN LANGUAGE REQUIREMENT:**

8 hours in a single foreign language will be required unless two years of a single foreign language were completed in high school or the student graduated from high school prior to 1993. The University foreign language requirement is described on page 34 of the catalog.

\* Course to be completed with a grade of C- or better prior to starting Nursing School

\*\*\* Course to be completed with a grade of B or better prior to starting Nursing School

\*\* Course to be completed with a grade of B- or better prior to starting Nursing School

## DEPARTMENT OF PHYSICS

Associate Professor Bykov, Department Chair

Associate Professor Keith

Assistant Professor Renfro

### Mission and Goals:

The mission of the McMurry University Department of Physics is:

1. to provide non-science majors with an introduction to the concepts, problem-solving techniques, and critical-thinking skills of physics;
2. to provide non-physics science majors with a survey of physics and a discovery-based laboratory experience that emphasizes data analysis and scientific communication;
3. to provide physics majors with a broad-based curriculum that emphasizes the fundamentals through a combination of classroom instruction, laboratory work, and research experiences;
4. to enhance the education of physics majors and other interested students through such extra-curricular activities as the Society of Physics Students by providing the opportunity to form natural learning communities; and
5. to work in collaboration with each other to maintain an appropriate level of activity in our technical disciplines, in our academic communities, and in the local community.

The Physics Faculty believe that enacting this mission will lead to the goals of the department, which are:

1. to enable non-science majors to understand the proper roles of science, technology, and mathematics within our society;
2. to enhance non-physics science majors' understanding of science through the application of the scientific process into disciplines that overlap their interests, but view the material from a different perspective, thereby providing a richer understanding of the interconnectedness of their discipline to other fields;
3. to prepare physics graduates for a wide range of career opportunities including not only graduate study in physics, engineering, pre-med, or other sciences; but also, science teaching and careers in industry and science-related business;
4. to develop students who are within our influence as whole people, well-rounded beyond simply the classroom experience, who have collaborated on group projects and socialized in technical and in colloquial environments so that they can more easily grow into contributing, respected, and influential members of their future communities; and
5. to live as examples, especially for our students, of individuals in a community that values the habits of life-long learners, of scholars developing their field of knowledge, and of professionals.

To attain these goals, we enact this mission to provide scholarly and professional opportunities to our students and colleagues on a daily basis. We believe that when students accept the responsibility to make use of the opportunities provided they will have developed the knowledge and skills that enable them to be successful in their academic and professional endeavors.

### Special Programs and Opportunities:

**Dual Physics-Engineering Degree Program.** McMurry University has joined with Texas A&M University in offering a program to allow interested students to simultaneously pursue two bachelor's degrees: one in Physics from McMurry and one in Engineering from Texas A&M. The student will complete three years of course work at McMurry and then transfer to Texas A&M where they will continue their education for at least another two years in the Engineering field of their choice. The courses taken at McMurry will satisfy the general education and pre-requisite courses for Texas A&M and the Engineering courses taken at Texas A&M will count as advanced Physics courses for the McMurry University degree. Upon the successful completion of their Texas A&M coursework, the student will receive their BS degrees. The requirements for the McMurry University degree are as follows: Completion of at least 90 hours which will include:

All General Education Requirements for the BS degree. The remainder of the required hours will be taken from McMurry Science and Math curriculum. Please consult the pre-engineering advisor for appropriate choice of courses.

### Graduate Study in Engineering

Students with an interest in engineering should consider the possibility of completing an undergraduate physics degree at McMurry University followed by application to a graduate program in engineering. The physics department has had recent graduates be accepted into graduate engineering programs at Texas Tech and construction management at Texas A&M. McMurry University offers a few courses that can count toward the physics major which also provide an introduction to engineering.

### Graduate Admission Agreement to Texas Tech University

Texas Tech University has agreed to guarantee physics students at McMurry University graduate admission into its M.S. degree program in physics. The degree options available to the qualifying student include the traditional M.S. in Physics, M.S. in Applied Physics, and M.S. in Applied Physics with Internship. The necessary criteria for guaranteed admission to these options are as follows:

Student must receive a B.S. in Physics from McMurry University.

Course work must include the following with a letter grade of at least B:

Electricity and Magnetism (1 semester minimum) - Physics 4310

Quantum Mechanics (1 semester minimum) - Physics 4330

For students applying to the M.S. in Applied Physics with Internship in the semiconductor industry, students are required to take the following courses, earning a letter grade of at least a B:

Solid State Physics - Physics 4385

Electronics - Physics 3350

Students must have a minimum overall GPA of 3.00, a minimum GPA in upper division physics courses of 3.25, and must meet all other requirements of the Texas Tech Graduate School.

**Society of Physics Students:** The McMurry Chapter of the Society of Physics Students is a charter chapter of the Society which was founded on April 22, 1968. The purpose of the Society is to promote educational activities for all students interested in physics and to encourage and assist students to develop the knowledge, competence, enthusiasm, and social responsibility that are essential to the advancement of physics. Membership is open to all students interested in physics.

**Sigma Pi Sigma:** The McMurry chapter of Sigma Pi Sigma, the physics honor society, was chartered in 1962. The objective of the society is to recognize the attainment of high scholarship and potential achievement in physics. Membership is open to juniors and seniors who have attained high scholarship in physics and other subjects and who give evidence of professional merit, proficiency, or distinction. The society is a member of the Association of College Honor Societies and is an affiliated society of the American Association for the Advancement of Science. Sigma Pi Sigma is an integral part of the Society of Physics Students operating within the Education Division of the American Institute of Physics.

**Departmental Awards:** Each spring, awards are presented to outstanding students at the freshman and sophomore level. An outstanding junior is awarded the John and Ruth Cole Scholarship and an outstanding senior is awarded the Piper-Bottom Award for Excellence in Physics.

**Departmental Honors.** Please see the description of the Honors Program under the Special Program section earlier in the catalog.

### Requirements for a Degree in Physics and a Minor in Physics follows the course descriptions.

#### Degree in Physics

**Satisfactory completion of all requirements for the BS degree in Physics will also result in the awarding of a minor in Mathematics.** Students wishing to double major in mathematics and physics need five math classes beyond those required by the physics major, and should begin by taking discrete math in their freshman or sophomore year. Be sure do discuss this with your advisor. Students with an interest in engineering should tell their advisor which concentration they would like to pursue. This will affect their sophomore - senior schedules.

**Courses Taught in the Physics Department:**

PHYS 1400	Introduction to Physics
PHYS 1401	Introduction to Astronomy
PHYS 1410	General Physics I
PHYS 1420	General Physics II
PHYS 2310	Automated Experimental Measurements
PHYS 2510	University Physics I
PHYS 2520	University Physics II
PHYS 3270	Advanced Physics Laboratory
PHYS 3300	Introduction to Modern Physics
PHYS 3315	Engineering Statics
PHYS 3325	Engineering Dynamics
PHYS 3350	Electronics
PHYS 3352	Digital Electronics
PHYS 3385	Advanced Modern Physics
PHYS 4175	Physics Research Proposal
PHYS 4275	Physics Research Project
PHYS 4300	Classical Mechanics
PHYS 4302	Classical Mechanics II
PHYS 4310	Electricity & Magnetism
PHYS 4312	Electricity & Magnetism II
PHYS 4330	Quantum Mechanics
PHYS 4335	Solar System Physics
PHYS 4360	Thermodynamics
PHYS 4362	Thermodynamics II
PHYS 4385	Solid State Physics
PHYS 4X95	Independent Studies
PHYS 4X96*	Honors Tutorial
PHYS 4X97*	Honors Thesis/Project
PHYS XX99	Special Topics



**PHYSICS FOCUS AREAS**

<b>PHYSICS</b>	
<u>COURSE</u>	<b>HOURS</b>
PHYS 3350	3
PHYS 4330	3
PHYS 4360	3
<b>Select 3 hrs from</b> PHYS 4302, 4312, 4362	3
<b>Select 3 hrs from</b> PHYS 3315, 3325, 3352, 3385, 4302, 4362, 4312, 4335, 4385, MATH 4331	3
<b>TOTAL HOURS</b>	<b>15</b>

<b>PHYSICS WITH ELECTRICAL ENGINEERING FOCUS</b>	
<u>COURSE</u>	<b>HOURS</b>
PHYS 3350	3
PHYS 4312	3
PHYS 4330	3
PHYS 3352	3
<b>Select 3 hrs from</b> PHYS 4360, 4385, MATH 4331	3
<b>TOTAL HOURS</b>	<b>15</b>

<b>PHYSICS WITH CIVIL/MECHANICAL ENGINEERING FOCUS</b>	
<u>COURSE</u>	<b>HOURS</b>
PHYS 3315	3
PHYS 3325	3
PHYS 4360	3
<b>Select 6 hrs from</b> PHYS 3350, 3385, 4302, 4330, 4362, 4312, 4335, 4385 MATH 4331	6
<b>TOTAL HOURS</b>	<b>15</b>

## PHYSICS DEPARTMENT MINORS

<b>MINOR IN PHYSICS</b> (Not available for Physics majors)	
<b>COURSE</b>	<b>HOURS</b>
PHYS 2510	5
PHYS 2520	5
PHYS 3270 or PHYS 3350	2-3
PHYS 3300	3
<b>Select 3 hrs from</b> Advanced PHYS electives	3
<b>TOTAL HOURS</b>	<b>18-19</b>



## DEPARTMENT OF POLITICAL SCIENCE

Professor Bertrand, Department Chair  
Professors Fabrizio, Troncoso

### Mission and Goals:

The Department of Political Science seeks to equip majors with the intellectual tools for understanding: the political systems of the United States and other countries across the globe; the international dynamics of an interdependent world; and different philosophical perspectives on politics.

The Department of Political Science has as its main goals:

1. To prepare its graduates for a variety of careers emphasizing politics, policy analysis, and/or global interactions;
2. To prepare its graduates for advanced or professional education; and,
3. To equip its graduates with intellectual tools and communication skills sufficient to participate in internship and experiential learning opportunities.

### Special Programs and Opportunities:

*Departmental Honors.* Please see the description of the Honors Program under the Special Program section earlier in the catalog.

## MODEL UNITED NATIONS

The Model United Nations Program at McMurry University is an **inter-disciplinary program** that incorporates coursework with interactive, hands-on simulations to provide students with academic and practical learning experience.

The purpose of the Model United Nations Program is to increase students' content learning by teaching students basic knowledge of the UN system, parliamentary procedure and diplomatic language, and countries' foreign policies. In addition, the Model United Nations Program enhances students' critical thinking and process skills by focusing on: improving reading comprehension, public speaking, and cooperative learning; information analysis, synthesis and evaluation; problem-solving and negotiating strategies, and identifying and developing leadership skills.

The Model United Nations Program at McMurry University provides students with the following specific educational and experiential learning opportunities:

1. Model UN participants take an interdisciplinary three-credit course designed to prepare students for competition at local and national Model UN competitions (see #2 below). Students may take this course twice for credit: Political Science majors may take the course once for credit in the major and once for upper-level elective credit; non-majors may take the course twice for upper-level elective credit.
2. Model UN participants compete in Model UN conferences. Preparing for competition involves research and role-playing. Students become "ambassadors" of specific countries by presenting position papers on that country's policy preferences, caucusing, negotiating, and consensus-building with others to solve global problems. Of particular interest to students is the National Model UN Conference, held annually in New York. Participants at this conference spend part of the conference at the United Nations headquarters and meet with UN diplomats from the US and other countries.
3. Model UN participants host an annual Model UN conference on campus for area high schools and universities. McMurry students learn organizational skills in conference hosting, parliamentary procedure, and content matter concerning the topics under discussion at the conference.
4. Model UN participants engage in global community outreach by raising awareness of global problems. Ongoing outreach projects include raising awareness of the global landmine crisis and taking part in the Adopt-A-Minefield Campaign. Participants have spoken to local organizations about the landmine problem, and raised monies to clear a minefield in Cambodia.

### Teacher Certification in Social Studies 8-12

*\*See Degree plan on page 116\**

History majors selecting the minor in Social Studies with the intent of seeking additional certification in the teaching fields covered under Social Studies (i.e., government, economics, and geography) are strongly encouraged to consult closely with their advisor who will help students select specific courses that will fulfill both General Education and major and/or minor requirements under Global, Societal, and Personal Perspectives: World, and Society and Self sections. Such courses may include HIST 1310 or 1320 to fulfill requirements in their major and in the General Education - World perspectives section - and HIST 2310 or 2320, and PSC 2310 or 2320 to fulfill requirements in their major and in the General Education - Society and Self section. These suggestions are intended to minimize the total number of hours required to obtain said minor.

### Courses Taught in the Political Science Department:

PSC 1310	Introduction to Politics
PSC 2310	American National Government
PSC 2320	State Government
PSC 2350	Contemporary Global Issues
PSC 3305	Campaigns and Elections
PSC 3310	Political and Cultural Geography
PSC 3350	Comparative Politics
PSC 3355	International Relations
PSC 3360	Modern Political Philosophy
PSC 3365	International Organizations
PSC 3375	Model United Nations
PSC 4330	Congress
PSC 4335	Presidency
PSC 4340	American Foreign Policy
PSC 4350	The Supreme Court and Constitutional Law
PSC 4360	International Political Economy
PSC 4388	Internship
PSC 4X96*	Honors Tutorial
PSC 4X97*	Senior Thesis
PSC XX99	Special Topics

## BACHELOR OF ARTS POLITICAL SCIENCE

### A MINOR IS REQUIRED FOR THE BACHELOR OF ARTS DEGREE

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * *(for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>MAJOR IN POLITICAL SCIENCE</b> (3 hours may also meet general education requirements)	
<u>POLITICAL SCIENCE</u>	HOURS
PSC 1310	3
PSC 2310	3
PSC 3350	3
PSC 3355	3
PSC 3360	3
<b>Select 9 hrs from</b> PSC 2000 or 3000 level	9
<b>Select 9 hrs from</b> PSC 4000 level	9
<b>TOTAL HOURS</b>	<b>33</b>

**FOREIGN LANGUAGE REQUIREMENT:**

This major requires 2 years of foreign language at the college level, or demonstration of proficiency by taking a CLEP exam or a foreign language proficiency exam. The University foreign language requirement is described on page 34 of the catalog.

## BACHELOR OF ARTS SOCIAL STUDIES 8-12

### MINORS IN SOCIAL STUDIES AND CURRICULUM AND INSTRUCTION ARE REQUIRED

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>HISTORY GRADES 8-12</b> (9 hours may also meet general education requirements) *See not on page 144	
<u>COURSE</u>	HOURS
HIST 1310	3
HIST 1320	3
HIST 2310	3
HIST 2320	3
HIST 3377	3
HIST 4380	3
<b>Select 6 hrs from</b> HIST 3310, 3315, 3316, 3317, 3320, 3350, 3351, 3352, 3354, 4330, 4345, 4354	6
<b>Select 6 hrs from</b> HIST 3314, 3331, 3358, 3359, 3360, 3363, 3364, 3375, 432(a-d), 4360, 4365, 4375	6
<b>Select 6 hrs from</b> Advanced U.S. or World History Courses	6
<b>TOTAL HOURS</b>	<b>36</b>

<b>MINOR IN SOCIAL STUDIES GRADES 8-12</b> (Not available for Political Science majors)	
<u>COURSE</u>	HOURS
PSC 2310	3
PSC 2320	3
PSC 3310	3
ECON 2310	3
ECON 2320	3
<b>Select 3 hrs from</b> PSC 4330, 4335	3
<b>Select 3 hrs from</b> PSC 4340, 4350	3
<b>TOTAL HOURS</b>	<b>21</b>

<b>MINOR IN CURRICULUM AND INSTRUCTION (GRADES 8-12)</b>	
<u>COURSE</u>	HOURS
CI 2110 <i>The following CI courses listed in this box require admission to the Teacher Education Program.</i>	1
CI 3301	3
CI 3302	3
CI 4324	3
CI 4325	3
CI 4125	1
CI 4198	1
CI 4602	6
<b>TOTAL HOURS</b>	<b>21</b>

#### **FOREIGN LANGUAGE REQUIREMENT:**

This major requires 2 years of foreign language at the college Level, or demonstration of proficiency by taking a CLEP exam or a foreign language proficiency exam. The University foreign language requirement is described on page 34 of the catalog.

## POLITICAL SCIENCE MINORS

<b>MINOR IN POLITICAL SCIENCE</b> (Not available for Political Science majors)	
<b><u>COURSE</u></b>	<b>HOURS</b>
PSC 1310	3
PSC 2310	3
<b>Select 6 hrs from</b> PSC 3350, 3355, 3360	6
<b>Select 6 hrs from</b> PSC 2320, 3305, 3310, 3365, 3375, 4330, 4335, 4340, 4350, 4360	6
<b>TOTAL HOURS</b>	<b>18</b>

<b>MINOR IN SOCIAL STUDIES</b> (Not available for Political Science majors)	
<b><u>COURSE</u></b>	<b>HOURS</b>
PSC 2310	3
PSC 2320	3
PSC 3310	3
ECON 2310	3
ECON 2320	3
<b>Select 3 hrs from</b> PSC 4330, 4335	3
<b>Select 3 hrs from</b> PSC 4340, 4350	3
<b>TOTAL HOURS</b>	<b>21</b>

## PROFESSIONAL PREPARATION PROGRAMS

### PROFESSIONAL PREPARATION PROGRAMS

The mission of the McMurry University Pre-Professional Program is to provide the curricular advising and career guidance needed by our students as they prepare themselves for application to and successful completion of a professional school program.

Pre-professional programs are those which require additional specialized academic training unavailable in undergraduate programs at McMurry. For instance, McMurry does not offer law or medical degrees, but we provide the foundational course work and preparation for students who plan on applying to law schools and medical schools. There are no pre-professional majors. Students of any major may attend a professional school, provided they take the prescribed required courses beforehand, meet other admissions requirements, and are selected from the pool of qualified applicants in a competitive process.

Students are encouraged to contact the advisor for the program of interest early in their college career and remain in contact regularly thereafter to receive the advising necessary to prepare the student for professional school application.

Students who plan to pursue a career in a health profession are strongly advised to apply to the Pre-Health Professions Program and to take the two Pre-Health Professions seminar courses (PREP 2105, 2106 see "course descriptions" later in the catalog) required to receive the official Pre-Health Professions Committee letter of evaluation during the application process. For a full description of the benefits of membership in the Pre-Health Professions Program, please contact the Pre-Allied Health Advisor.

For more information on professional program preparation, please contact the advisor for the pre-professional program of interest.

### PRE-ENGINEERING PROGRAM

Advisor: Dr. Wayne Keith

Students interested in pursuing a degree in Engineering should follow the curriculum of the Physics major. Options include either transferring to an engineering school after the junior year and working towards two Bachelor's Degrees or following a Physics degree at McMurry University with graduate work in Engineering. The particular area of Engineering in which the student is interested may influence their choice of electives. The Department of Physics offers a BS in physics with concentrations in Electrical Engineering and in Civil/Mechanical Engineering. Interested students should refer to the Degree Program under the Department of Physics for details. You may also contact one of the Physics professors.

### PRE-HEALTH PROGRAMS

#### Pre-Allied Health

Advisor: Dr. Larry Sharp

There are many rewarding careers available in the health professions besides the commonly known dental, medical, physical therapy, veterinary medicine and other high-profile health professions. Such important fields as respiratory therapy, physician's assistant, optometry, radiological imaging, and other health fields may be of interest to some students. As the coursework necessary for acceptance into these programs varies greatly, it is suggested that interested students contact the Pre-Allied Health Advisor for information and guidance.

#### Pre-Dentistry

Advisor: Dr. Larry Sharp

All dental schools in Texas participate in the common application made through the Texas Medical and Dental Student Application Service in Aust

in. Students apply during the summer before their final year in college, with competitive applicants receiving invitations for on-campus interviews at the dental schools in the fall of the senior year. Announcement of admitted students is made in the spring of the senior year. To apply to dental programs, a student must complete the following prescribed coursework: 14 semester hours of Biology (2 hours lab), 8 semester hours of General Chemistry (2 hours lab), 8 semester hours of Organic Chemistry (2 hours lab), 8 semester hours of Physics (2 hours lab), and 6 semester hours of non-remedial English composition. Some schools require 3 hours of Biochemistry, which may be used to satisfy part of the Biology requirement. All prerequisites must be passed with at least a "C" grade. Courses intended specifically for health career majors (nursing, pharmacy, allied health sciences) are not accepted. Schools vary slightly in requirements, with specifics posted at the TMSAS web site: <http://www.utsystem.edu/tmsas/EssentialsForApplying.htm#PrescribedCourses>.

At least 90 undergraduate semester hours must be completed before enrollment into a dental program, but baccalaureate degrees are highly desirable. See the Pre-Dentistry Advisor for suggested coursework to prepare students for the Dental Admission Test. Information on the DAT may be obtained from the American Dental Association web site: <http://www.ada.org/prof/ed/testing/dat/index.asp>.

Similar information is available for students wishing to apply to schools outside Texas from the American Dental Association (<http://www.ada.org/prof/ed/programs/index.asp>).

Please note that high-performing freshman students may apply for McMurry's "3+4 Dental Early Acceptance Program". This program allows Texas residents majoring in Biology to apply during their freshman year for early entry into dental school following their junior year and complete both their BS in Biology from McMurry and DDS degree from UTHSC-San Antonio School of Dentistry in a total of seven years. Acceptance decisions are made typically before the sophomore year. Thereafter, admitted students must take prescribed courses, maintain a competitive GPA, and achieve at least an average DAT score. For more information, see the Pre-Dentistry Advisor.

### Pre-Medicine

Advisor: Dr. Larry Sharp

All medical schools in Texas (except Baylor College of Medicine) participate in the common application made through the Texas Medical and Dental Student Application Service in Austin. Students apply during the summer before their final year in college, with competitive applicants receiving invitations for on-campus interviews at the medical schools in the fall of the senior year. To apply, a student must complete the following prescribed coursework: 14 semester hours of Biology (2 hours lab), 8 semester hours of General Chemistry (2 hours lab), 8 semester hours of Organic Chemistry (2 hours lab), 8 semester hours of Physics (2 hours lab), 3 semester hours of Calculus or Statistics, and 6 semester hours of non-remedial English composition. Some schools require 3 hours of Biochemistry, which may be used to satisfy part of the Biology requirement. All prerequisites must be passed with at least a "C" grade. Courses intended specifically for health career majors (nursing, pharmacy, allied health sciences) are not accepted. Schools vary slightly in requirements, with specifics posted at the TMSAS web site: <http://www.utsystem.edu/tmsas/>

At least 90 undergraduate semester hours must be completed before the anticipated date of enrollment into a medical program, but baccalaureate degrees are highly desirable. See the Pre-Medicine Advisor for suggested

coursework to prepare students for the Medical College Admission Test. Information on the MCAT may be obtained from the Association of American Medical Colleges web site: <http://www.aamc.org/students/mcat/>.

Similar information is available for students wishing to apply to schools outside Texas from the American Medical College Application Service (<http://www.aamc.org/students/amcas/start.htm>).

## Professional Preparation Programs

### Pre-Occupational Therapy

Advisor: Dr. Paul Smith

Texas has five campuses that offer a BS degree and eight that offer a MS degree in Occupational Therapy. All of these schools offer a BS degree and at least two have a M.S. program. The undergraduate programs culminate in a BS in Occupational Therapy and have specific prerequisites for admission to the program. McMurry provides courses and opportunities to complete the prerequisite course work for these programs. All of the undergraduate programs require English, history, government, psychology, and two to three semesters of biology. Students generally are required to have at least one semester of chemistry, one semester of physics, one or two semesters of mathematics, and one or two semesters of sociology, among others. Since the individual professional schools differ somewhat in their requirements, the student is encouraged to meet with the occupational therapy advisor for information and guidance in selecting a plan of study.

### Pre-Pharmacy

Advisor: Dr. Paul Pyenta

McMurry provides courses that prepare students to apply to schools of pharmacy. Most schools of pharmacy offer a Doctor of Pharmacy "Pharm-D" degree for individuals wishing to become a pharmacist. Some schools also offer a Doctor of Pharmaceutical Sciences degree intended for students wishing to pursue pharmaceutical research as a scientist. Most schools prefer incoming students to have a Bachelor of Science degree, although some schools allow the option of early entry. Additional requirements include successful completion of specific courses, PCAT score, and a minimum gpa. The following McMurry courses are minimally typical to prepare the student and satisfy prerequisites for most schools of pharmacy (this list based on Texas Tech University School of Pharmacy):

<u>Courses</u>		<u>Cred Hrs</u>
Professional Prep	PREP 2105, 2106	2
General Chemistry	CHEM 1410, 1420	8
Organic Chemistry	CHEM 3410, 3420	8
General Physics	PHYS 1410	4
General Biology	BIMS 1301, 1101	4
	BIOL 3460, or BIOL 1402, or BIOL 1403	4
Microbiology	BIMS 3410	4
Human-based Sciences	CHEM 3441, or BIOL 3460, or BIMS 4320, (or other)	4
Calculus	MATH 2421	4
Statistics	MATH 3351	3
Speech (public speak)	COMM 1310	3
Economics	ECON 2310, or ECON 2320	4
English Comp	ENG 1310, 1320	6
English Lit	ENG 2310, or ENG 2320, or 2330, (or other)	3
Humanities / social science	many options	15
total		76

Exact course requirements for program admittance vary, thus students are advised to check with specific schools of pharmacy. Pre-pharmacy students at McMurry should consult with the McMurry pre-pharmacy advisor for individual advising.

### Pre-Physical Therapy

Advisor: Dr. Paul Smith

There are ten physical therapy programs in Texas, all requiring a BS or BA degree before admission. Successful completion of these programs results in a Masters, or Doctoral degree in Physical Therapy. Normally the prerequisites to the programs are English, history, government, mathematics, psychology, one year of physics, one year of chemistry, and three to five semesters of biology. The schools vary in biology courses specified. More detailed information and guidance can be obtained from the physical therapy advisor.

### Pre-Veterinary Medicine

Advisor: Dr. Joel Brant

\*The minimum preparation for application to the Texas A&M College of Veterinary Medicine is 64 semester hours to include the following:

English 1310, 3385	6 hrs
Literature	3 hrs
Approved Communication course	3 hrs
Biology 1402, 1403, 3410, 3460	16 hrs
Chemistry 1410, 1420, 3410, 3420	16 hrs
Biochemistry 3441, 3442	8 hrs
Physics 1410, 1420	8 hrs
Mathematics 2421 or 3351	3-4 hrs
Animal Nutrition and General Animal Science	6 hrs

\*The applicant is expected to have both animal and veterinary experience. The course prerequisites can be incorporated into some majors and minors. The major should be chosen according to interest of the student and vocational plans in the event of non-acceptance. Applicants are evaluated on GPA, academic rigor, semester loads carried, animal and veterinary experience, leadership, extracurricular activities, evaluation from undergraduate faculty, and the score on the Graduate Record Exam (GRE). Students are encouraged to consult the College of Veterinary Medicine web site for the most current information.

### PRE-LAW

Advisor: Dr. Brenna Troncoso

Students interested in a legal career after completion of a bachelor's degree are encouraged to pursue any academic major that interests them. Law schools do not recommend specific courses of study or any particular major. What law schools want are students who can think, write, and speak well and who have an understanding of the human experience. The Law School Admission Council recommends a "broad liberal arts curriculum" as the preferred preparation for a legal career. Admission committees want to see law school applicants rise to intellectual challenges by choosing academically rigorous courses. They are most likely to reject students who select non challenging or narrow fields of study. Law schools encourage courses of study that demand strong reasoning and communication skills.

### PRE-MINISTRY PROGRAM

Advisor: Dr. John Miller

This program prepares and supports students interested in vocational or avocational ministries. Pre-Ministry students are encouraged to major or minor in Religion or Christian Ministry, but the program is open to all students. At a minimum, students should take REL 2310, Introduction to Christian Ministry, as early as possible. Students who intend to pursue graduate theological studies are encouraged to complete two years of Greek, and to take courses that prepare them to think critically and communicate effectively. Courses in philosophy, English, history, and psychology will benefit every pre-ministry student. Students intending to become Christian counselors should consider completing a major or minor in Psychology in addition to their studies in Religion.

It is very important that students consult their respective denominations to make sure they are completing ordination requirements and complying with the appropriate standards of ministerial preparation. Many pre-ministerial students complete internships in local churches or otherwise serve in part-time positions in ministry. Students are encouraged to participate in Kappa Delta Sigma, a student organization for pre-ministerial students, and in the programming of the Religious Life Office.

## DEPARTMENT OF PSYCHOLOGY

Associate Professor Schneller, Department Chair  
 Associate Professors Dawson  
 Assistant Professor Kosheleva  
 Visiting Instructor Dunn

### Mission and Goals:

Upon completion of this program students will be able to:

1. Demonstrate an understanding of scientific inquiry and methods of research utilized in psychology;
2. Demonstrate an understanding of the biological, psychological, social and environmental factors that impact normal and abnormal development across the lifespan;
3. Demonstrate an understanding of the major theoretical schools of thought within psychology;
4. Demonstrate an understanding of human cognitive and emotional processes;
5. Demonstrate an understanding of how people, as individuals and in groups, influence and relate to others in interpersonal and societal situations;
6. Demonstrate oral and/or written communication skills utilized within the field of psychology.

### Special Programs and Opportunities:

**Psychology Club.** The McMurry Psychology Club "TRI-PSY" is designed to promote interest in psychology, to provide psychological activities beyond the usual classroom situation, to enhance contacts between students and local psychologists, and to encourage fellowship among psychology students. It is open to all students with an interest in the science and practice of psychology.

**PSI CHI.** The McMurry University chapter of Psi Chi was chartered in April 1999. Psi Chi is the National Honor Society of Psychology, founded in 1929 for the purpose of encouraging, stimulating, and maintaining excellence in scholarship and advancing the science of psychology. Membership is open to graduate and undergraduate men and women who are making the study of psychology one of their major interests and who meet the minimum qualifications. Psi Chi is a member of the Association of College Honor Societies (ACHS) and is an affiliate of the American Psychological Association (APA) and the American Psychological Society (APS)

**Departmental Awards.** Each Spring, awards are presented to outstanding students at the junior, and senior levels. The Evelyn Hennig Memorial Scholarship is awarded to the outstanding junior. The O.P. Clark Scholarship is awarded to the outstanding senior.

**Psychology Exit Exams.** All majors in Psychology must take a locally prepared departmental exam and the Major Field Achievement Test (MFAT) in Psychology whenever they take the Senior Seminar in Psychology. There is no cost to the student for these tests. Individual scores are kept confidential. These tests are used for assessment of the departmental program and to give students practice for the Graduate Record Exam (GRE) in Psychology.

**Internship in Psychology.** Junior or Senior-level Psychology majors are encouraged to consider participation in the internship program. In the program, students receive meaningful practical experience by working in a mental health setting to see how the theoretical concepts of Psychology are put in practice. Specific requirements unique to the Department of Psychology are listed under PSYC 4388 in this section.

**Departmental Honors.** Please see the description of the Honors Program under the Special Program section earlier in the catalog.

### Courses Taught in the Psychology Department:

PSYC 1340	General Psychology
PSYC 2360	Developmental Psychology
PSYC 3301	Human Cognition and Learning
PSYC 3305	Research Methods and Statistics I
PSYC 3306	Research Methods and Statistics II
PSYC 3310	Language: Mind, Brain, and Society
PSYC 3320	Personality Theories
PSYC 3340	Social Psychology
PSYC 3382	Positive Psychology and Mental Health
PSYC 3385	Gerontology
PSYC 3390	Psychopharmacology
PSYC 4300	Abnormal Psychology
PSYC 4315	Psychological Tests and Measurements
PSYC 4320	Psychology of the Criminal Mind
PSYC 4330	History and Systems of Psychology
PSYC 4341	Physiological Psychology
PSYC 4365	Death and Dying
PSYC 4370	Industrial and Organizational Psychology
PSYC 4375	Clinical and Counseling Psychology
PSYC 4388	Internship
PSYC 4392	Senior Seminar in Psychology
PSYC 4X95	Independent Studies
PSYC 4X96*	Honors Tutorial
PSYC 4X97*	Honors Thesis
PSYC 4X98*	Honors Research
PSYC 4X99	Special Topics





## PSYCHOLOGY DEPARTMENT MINORS

<b>MINOR IN PSYCHOLOGY</b> (Not available for Psychology majors)	
<b><u>COURSE</u></b>	<b>HOURS</b>
PSYC 1340	3
<b>Select 9 hrs from</b> PSYC 2360, 3301, 3320, 3340, 4300, 4341, 4375	9
<b>Select 6 hrs from</b> PSYC Electives	6
<b>TOTAL HOURS</b>	<b>18</b>

## DEPARTMENT OF RELIGION AND PHILOSOPHY

*Professor LeMasters, Dean of School of Social Sciences and Religion*

*Professor Kinlaw, Department Chair*

*Associate Professor Miller*

*Assistant Professors Libby, Stewart*

### Mission and Goals:

The Mission of the Department of religion and philosophy is to administer programs in the academic fields of Religion and Philosophy and to cooperate with other academic departments in furthering the pursuit of Christian liberal arts education on our campus. The Department maintains a Wesleyan commitment to unite intellectual achievement and vital piety in ways that foster both academic excellence and mature Christian discipleship. The Department intends for the program in religion to serve the mission of McMurry University by accomplishing the following goals:

1. Introduce all McMurry students to the academic study of religion through general education courses such as Introduction to the old Testament, Introduction to the new Testament, and Introduction to Christianity;
2. Offer advanced courses in Scripture, Christian theology and ethics, the history of Christianity, and other fields which prepare religion majors and minors for graduate school and/or seminary, and provide students majoring in other fields the opportunity to supplement their studies through advanced work in religion;
3. Offer a limited number of courses which introduce pre-ministerial students to the theory and practice of ministry in the United Methodist Church;
4. Provide religion students with opportunities for independent research through the religion departmental honors program;
5. Provide opportunities for McMurry students to participate in study abroad programs in religion.

### SPECIAL PROGRAMS

**Kappa Delta Sigma:** Membership in Kappa Delta Sigma is open to all students majoring or minoring in religion and to all students with an interest in or commitment to service in Christian vocations, including ordained ministry. Activities will include programs of special interest and service projects.

**Archaeology Experiences:** McMurry University cooperates with a university consortium to provide opportunities for Middle East study and travel. The formal consortium (Drew, Gannon, and Lubbock Christian Universities) focuses on the Bronze Age archaeological project at Khirbet Iskander, Jordan, with both new discoveries and conservation work in former years. The summer program introduces McMurry students to hands on learning in a variety of areas, to include archaeology, art, Bible, history, religion and sociology. The project is done in cooperation with the Jordanian Department of Antiquities and the American Center for Oriental Research.

**Course of Study:** United Methodist local pastors who have completed the Course of Study may receive academic credit for coursework in religion. Interested students should submit transcripts from the Course of Study to the Office of the Registrar. Transcripts will be reviewed by members of the Religion faculty.

**Departmental Awards:** Each year one or more Cal C. Wright scholarships are presented to students showing outstanding potential for Christian ministry. Each year the George Steinman Award is presented to the McMurry junior religion major with the highest academic standing.

**Departmental Honors.** Please see the description of the Honors Program under the Special Program section earlier in the catalog.

### Courses Taught in the Religion and Philosophy Department:

GRK 2410	New Testament Greek Grammar I
GRK 2420	New Testament Greek Grammar II
GRK 3310	Greek Translation I
GRK 3320	Greek Translation II
GRK 4X95	Independent Studies
GRK XX99	Special Topics
PHIL 2350	Introduction to Philosophy
PHIL 2360	Logic
PHIL 3300	History of Ancient Philosophy
PHIL 3305	Medieval Philosophy
PHIL 3310	History of Modern Philosophy
PHIL 3325	Symbolic Logic
PHIL 3330	Topics in Ethics
PHIL 3340	Great Books in Political Philosophy
PHIL 3341	Classical German Political Philosophy
PHIL 3345	Philosophy of Mind
PHIL 4300	Religious Epistemology
PHIL 4310	Contemporary Philosophy
PHIL 4320	Philosophy of Religion
PHIL 4X95	Independent Studies
PHIL 4X96*	Honors Tutorial
PHIL 4X97*	Senior Thesis
PHIL 4398	Senior Seminar
PHIL XX99	Special Topics
REL 1310	The Bible in One Semester
REL 1330	Introduction to Christianity
REL 2309	Holocaust Through the Eyes of Elie Wiesel
REL 2310	Introduction to Christian Ministry
REL 2330	Introduction to the Old Testament
REL 2340	Introduction to the New Testament
REL 2350	religions of the World
REL 2360	Research Methods in Religion and Philosophy
REL 3300	Homiletics
REL 3310	Eastern Orthodox Theology
REL 3315	Catholic and Protestant Theology in Dialogue
REL 3320	Biomedical Ethics
REL 3330	Christian Ethics
REL 3334 (a-)	Advanced Biblical Studies
REL 3335	Introduction to Hospital Ministry
REL 3340	Pastoral Care and Counseling
REL 3375	History of Christianity to 1500
REL 3385	History of Christianity from 1500
REL 3390	Christianity in Scotland
REL 4309	Holocaust Through the Eyes of Elie Weisel
REL 4320	Philosophy of Religion
REL 4330	Sociology of Religion
REL 4340	Worship and Liturgy
REL 4365	The Christian Bible: Formation and Interpretation
REL 4375	Augustine, Anselm, Aquinas, and Luther
REL 4380	Methodist Movement, Pietism & Evangelical Revival
REL 4388	Internship
REL 4390	Senior Seminar
REL 4X95	Independent Studies
REL 4X96*	Honors Tutorial
REL 4X97*	Senior Thesis/Project
REL XX99	Special Topics

## BACHELOR OF ARTS RELIGION

### A MINOR IS REQUIRED FOR THE BACHELOR OF ARTS DEGREE

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> <b>Select 3 hrs from</b> HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> <b>Select 3 hrs from</b> MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> <b>Select 3 hrs from</b> BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> <b>Select 3 hrs from</b> REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> <b>Select 3 hrs from</b> ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <b><i>World</i> Select 3 hrs from</b> ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <b><i>Society and Self</i> Select 6 hrs from two disciplines</b> ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <b><i>Health and Fitness</i> Select 2 hrs from</b> H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs) (as required by major)</b> <b>Select 4 hrs from</b> BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>MAJOR IN RELIGION</b> (3-6 hours may also meet general education requirements)	
<u>RELIGION</u>	HOURS
REL 1330	3
REL 2330	3
REL 2340	3
REL 2350	3
REL 2360	3
REL 4390	3
PHIL 2350	3
<b>Select 3 hrs from</b> (REL 334a-g)	3
<b>Select 3 hrs from</b> REL 3375, 3385, 4365, 4375, 4380	3
<b>Select 3 hrs from</b> REL 3310, 3315, 3320, 3330, 3390	3
<b>Select 6 hrs from</b> REL Electives	6
<b>Select 3 hrs from</b> Advanced Philosophy Electives	3
<b>TOTAL HOURS</b>	<b>39</b>

#### **FOREIGN LANGUAGE REQUIREMENT:**

This major requires 2 years of foreign language at the college level, or demonstration of proficiency by taking a CLEP exam or a foreign language proficiency exam. The University foreign language requirement is described on page 34 of the catalog.

## BACHELOR OF ARTS CHRISTIAN MINISTRY

**A MINOR IS REQUIRED FOR THE BACHELOR OF ARTS DEGREE**

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>MAJOR IN CHRISTIAN MINISTRY</b> (3-6 hours may also meet general education requirements)	
<u>RELIGION</u>	HOURS
REL 1330	3
REL 2310	3
REL 2360	3
REL 3300	3
REL 3340	3
REL 4340	3
REL 4388	3
<b>Select 3 hrs from</b> REL 1310, 2330, 2340	3
<b>Select 6 hrs from</b> REL 2350, 3310, 3315, 3320, 3330, 3390, 334a-g, 3375, 3385, 4365, 4375, 4380, 4399	6
<b>Select 3 hrs from</b> Advanced Religion Electives	3
<b>TOTAL HOURS</b>	<b>33</b>

**FOREIGN LANGUAGE REQUIREMENT:**

This major requires 2 years of foreign language at the college level, or demonstration of proficiency by taking a CLEP exam or a foreign language proficiency exam. The University foreign language requirement is described on page 34 of the catalog.

## RELIGION AND PHILOSOPHY DEPARTMENT MINORS

<b>MINOR IN CHRISTIAN MINISTRY</b> (Not available for Religion majors)	
<u>COURSE</u>	<u>HOURS</u>
REL 1330	3
REL 2310	3
REL 2330	3
REL 2340	3
REL 4388	3
<b>Select 3 hrs from</b> REL 3300 REL 3335 REL 3340 REL 4340	<b>3</b>
<b>TOTAL HOURS</b>	<b>18</b>

<b>MINOR IN GREEK</b>	
<u>COURSE</u>	<u>HOURS</u>
GRK 2410	4
GRK 2420	4
GRK 3310	3
GRK 3320	3
<b>Select 4 hrs from</b> GRK 4X95, XX99	<b>4</b>
<b>TOTAL HOURS</b>	<b>18</b>

<b>MINOR IN ETHICS</b>	
<u>COURSE</u>	<u>HOURS</u>
SLD 1300	3
PHIL 2350	3
REL 3320	3
REL 3330	3
PHIL 3330	3
BA 4385	3
<b>TOTAL HOURS</b>	<b>18</b>

<b>MINOR IN PHILOSOPHY</b>	
<u>COURSE</u>	<u>HOURS</u>
PHIL 2350	3
REL 2360	3
<b>Select 12 hours from</b> PHIL Electives. At least 3 hours must be 4000 level	<b>12</b>
<b>TOTAL HOURS</b>	<b>18</b>

<b>MINOR IN RELIGION</b> (Not available for Religion majors)	
<u>COURSE</u>	<u>HOURS</u>
REL 2310	3
REL 2360	3
<b>Select 6 hrs from</b> REL Electives	<b>6</b>
<b>Select 6 hrs from</b> Advanced REL Electives	<b>6</b>
<b>TOTAL HOURS</b>	<b>18</b>

## SERVANT LEADERSHIP

Assistant Professor Mark Waters, Director

### Vision:

The Servant Leadership Center of the Southwest seeks to create a better and more humane world by empowering servants, forming leaders, and transforming communities.

### Mission:

The McMurry Servant Leadership Program began in the fall of 1990. The purpose of the program is to give curricular recognition to the fact that a Christian education at McMurry University carries a special responsibility. Any college education prepares people for leadership. But Christian principles require that these people serve society as well. Leadership should be undertaken as a service to the greater good of others. The Servant Leadership program teaches principles of leadership, but also teaches the means by which these should be used for the betterment of community and society.

Current Servant Leadership course offerings include Introduction to Ethics, Concepts and Techniques of Servant Leadership, Formation in Servant Leadership, Theories of Leadership, Dialogue with the Other, and Internship/Capstone. Introduction to Ethics and Concepts and Techniques of Servant Leadership may be used to fulfill McMurry University's general education requirement for Leadership, Excellence, and Virtue. Introduction to Ethics is taught in a traditional lecture-discussion format. Concepts and Techniques of Servant Leadership includes lectures, small group discussion and learning activities, and service learning assignments in nonprofit agencies around Abilene. Formation in Servant Leadership, Theories of Leadership, and Dialogue with the Other are taught in a seminar format.

### Special Opportunities:

*Servant Leadership Council.* The Servant Leadership Council (SLC) includes diverse representation from other student organizations and the McMurry community. The purpose of SLC is to connect the Servant Leadership program with the community at large **and** to give the McMurry community a sense of ownership in the Servant Leadership program.

*Preceptors.* Students who successfully complete SLD 1310 are eligible to serve as preceptors (small group leaders) in subsequent semesters. Preceptors lead weekly learning activities and oversee their group's work in service learning placements. This is a paid, work-study, position.

*Resident Servant Leader Learning Community (RSLLC).* Servant Leadership partners with Religious Life to train selected Residence Hall Chaplains to take on additional Servant Leader responsibilities. Additionally, Servant Leadership facilitates a learning community among the Residence Hall Chaplains.

### Courses Taught in the Servant Leadership Area:

SLD 1300	Introduction to Ethics
SLD 1310	Concepts and Techniques of Servant Leadership
SLD 2310	Formation of Servant Leadership
SLD 3310	Theories of Leadership
SLD 3320	Dialogue with the Other
SLD 4388	Internship

## DEPARTMENT OF SPANISH STUDIES

Associate Professor Gómez

### Mission and Goals:

The Department of Spanish Studies supports the missions of the university and the School of Arts and Letters offering academic excellence through the study of language, literature, and culture, and prepares the students to become proficient linguistically and culturally in a multicultural, multiethnic, and multilingual society and be able to communicate successfully. The Department will apply the National Standards for Foreign Language in the four basic skills of language learning: listening, speaking, reading and writing.

### Special Programs and Opportunities

*Departmental Awards* Each year, the outstanding students in elementary and intermediate language courses are recognized in the all-university awards ceremony. At the same ceremony, the Gertrude Looney scholarship is awarded to the outstanding junior language student, and the Elizabeth Myatt award is presented to the outstanding senior language student.

*Sigma Delta Pi* is a national Spanish Honor Society, with a chapter at McMurry, that distinguishes students who have completed 18 hours in Spanish (or have the equivalent proficiency), have a 3.00 average in Spanish, a 2.75 average overall, and who have completed at least one advanced course in Spanish literature or civilization.

*Departmental Honors* for Spanish. Please see the description of the Honors Program under the Special Program section earlier in the catalog.

### Courses Taught in the Spanish Studies Department:

SPAN 1410	Elementary Spanish I
SPAN 1420	Elementary Spanish II
SPAN 2310	Intermediate Spanish I
SPAN 2320	Intermediate Spanish II
SPAN 3301	Conversation and Phonetics
SPAN 3331	Grammar and Composition
SPAN 3336	Hispanic Culture and Civilization
SPAN 4311	Survey of Spanish Peninsular Literature
SPAN 4312	Survey of Spanish American Literature
SPAN 4322	Spanish Linguistics
SPAN 4335	Spanish for Teachers and Majors
SPAN 4X95	Independent Studies
SPAN 4X96*	Honors Tutorial
SPAN 4X97*	Senior Thesis of Project
SPAN XX99	Special Topics

MINOR IN SERVANT LEADERSHIP	
COURSE	HOURS
SLD 1300	3
SLD 1310	3
SLD 2310	3
SLD 3310	3
SLD 3320	3
SLD 4388	3
<b>TOTAL HOURS</b>	<b>18</b>

## BACHELOR OF ARTS SPANISH

### A MINOR IS REQUIRED FOR THE BACHELOR OF ARTS DEGREE

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> <b>Select 3 hrs from</b> HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> <b>Select 3 hrs from</b> MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> <b>Select 3 hrs from</b> BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> <b>Select 3 hrs from</b> REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> <b>Select 3 hrs from</b> ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <b><u>World</u> Select 3 hrs from</b> ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <b><u>Society and Self</u> Select 6 hrs from two disciplines</b> ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <b><u>Health and Fitness</u> Select 2 hrs from</b> H F 1210 H F 1200 * *(for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs) (as required by major)</b> <b>Select 4 hrs from</b> BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

MAJOR IN SPANISH	
<u>SPANISH</u>	HOURS
SPAN 1410, 1420, 2310, 2320, or demonstrate proficiency through competency testing	0-14
SPAN 4335 <b>Select 15 hrs from</b> SPAN 3301, 3331, 3336, 4311, 4312, 4322, 4X95, 4X99	3 15
<b>TOTAL HOURS</b>	<b>18-32</b>

#### **FOREIGN LANGUAGE REQUIREMENT:**

Foreign Language Requirement is met by courses taken in the major.

## BACHELOR OF ARTS SPANISH GRADES EC-12

**A MINOR IN CURRICULUM AND INSTRUCTION IS REQUIRED FOR THE BACHELOR OF ARTS DEGREE IN SPANISH GRADES EC-12**  
All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3     6   2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>MAJOR IN SPANISH GRADES EC-12</b> (REQUIRES A MINOR IN CURRICULUM & INSTRUCTION)	
<u>SPANISH EC-12</u>	HOURS
SPAN 2310	3
SPAN 2320	3
SPAN 3301	3
SPAN 3331	3
SPAN 3336	3
SPAN 4311	3
SPAN 4322	3
SPAN 4335	3
<b>TOTAL HOURS</b>	<b>24</b>

**FOREIGN LANGUAGE REQUIREMENT:**

Foreign Language Requirement is met by courses taken in the major.

<b>MINOR IN CURRICULUM AND INSTRUCTION</b> (GRADES EC-12)	
<u>COURSE</u>	HOURS
CI 2110	1
<i>The following CI courses listed in this box require admission to the Teacher Education Program.</i>	
CI 3301	3
CI 3302	3
CI 4324	3
CI 4325	3
CI 4125	1
CI 4198	1
CI 4602	6
<b>TOTAL HOURS</b>	<b>21</b>



## SPANISH STUDIES DEPARTMENT MINORS

<b>MINOR IN SPANISH</b> (Not available for Spanish majors)	
<b><u>COURSE</u></b>	<b>HOURS</b>
SPAN 1410,1420, 2310, 2320, or second-year proficiency	0-14
<b>Select 6 hrs from</b> SPAN 3301, 3331, 3336, 4311, 4312, 4322, 4335	6
<b>TOTAL HOURS</b>	<b>6-20</b>

## DEPARTMENT OF SOCIOLOGY

*Professor Wallace, Department Chair*  
*Associate Professor Hollingsworth*  
*Visiting Instructor Cummings*

### Mission and Goals:

The Department of Sociology is oriented toward preparing students to:

1. Understand the structure and issues of contemporary society;
2. Discover that the individual both reacts to as well as creates the social world;
3. Use sociological concepts, insights, and methods in a systematic fashion;
4. Experience a discipline which has practical significance;
5. Continue graduate training;
6. Find employment in various social service or criminology fields.

### Special Programs and Opportunities:

*MicroCase.* The Department of Sociology is part of the MicroCase Curriculum Plan which offers unprecedented access to social science data sets. In particular, MicroCase has General Social Survey data from the National Opinion Research Center.

*ASA Department Affiliate.* The professional society for sociologists is the American Sociological Association. Since the Department is an affiliate of ASA, it keeps students abreast of what the profession is doing. ASA publications like *Embarking Upon a Career with an Undergraduate Degree in Sociology* and *Guide to Graduate Programs* are received each year.

*Sociology Club.* The Sociology Club is open to students who are majoring or minoring in sociology. Its intent is to promote the study of social life, to enhance the relationship between sociology students and the human services agencies of our society, and to encourage fellowship among sociology students.

*Alpha Kappa Delta.* The Phi chapter of Alpha Kappa Delta, an international sociology honor society, was chartered at McMurry in 1990. The objective of Alpha Kappa Delta is to promote an interest in the study of sociology and the research of social problems. AKD sponsors a paper competition that inductees can participate in each year.

*Departmental Awards.* Each spring, awards are presented to distinguished students. The Jane Addams Award is given to the outstanding sophomore. A junior student will receive the Everett and Orabeth Woods Scholarship. An outstanding senior major is given the Dan Dodson Award, while other students could receive the Morris Baker award or the Esma Morris Cash Scholarship. Regarding the minor in criminology, the Edwin Sutherland Award is presented to the outstanding student in criminology.

*Departmental Honors.* Please see the description of the Honors Program under the Special Program section earlier in the catalog.

### Courses Taught in the Sociology Department:

SOC 1300	SOC Issues: Examining the Collective Conscience
SOC 2300	Introduction to Sociology
SOC 2310	World Societies I
SOC 2320	World Societies II
SOC 2350	Social Problems
SOC 2375	Crime and Society
SOC 3300	Social Research
SOC 3310	Social Theory
SOC 3315	Criminology
SOC 3320	Sociological Investigations
SOC 3330	Social Stratification
SOC 3335	Juvenile Delinquency
SOC 3340	Social Psychology
SOC 3345	Studies in Criminology
SOC 3350	Race and Ethnicity
SOC 3360	Marriage and the Family
SOC 3370	Gender and Society
SOC 3375	White Collar Crime
SOC 3392	Social Policy
SOC 4325	Issues in Criminology
SOC 4330	Sociology of Religion
SOC 4335	Women and Crime
SOC 4385	Comparative Criminology
SOC 4392	Seminar in Sociology
SOC 4395	Practicum
SOC 4X96*	Honors Tutorial
SOC 4X97*	Senior Thesis
SOC XX99	Special Topics

## BACHELOR OF ARTS SOCIOLOGY

### A MINOR IS REQUIRED FOR THE BACHELOR OF ARTS DEGREE

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>MAJOR IN SOCIOLOGY</b> (3-6 hours may also meet general education requirements)	
<u>SOCIOLOGY</u>	HOURS
SOC 2300	3
SOC 3300	3
SOC 3310	3
SOC 3330	3
SOC 3350	3
SOC 3370	3
SOC 4392	3
Select 9 hrs from SOC Electives, MATH 3351	9
<b>TOTAL HOURS</b>	<b>30</b>

#### **FOREIGN LANGUAGE REQUIREMENT:**

This major requires 1 year of foreign language at the college level, or demonstration of proficiency by taking a CLEP exam or a foreign language proficiency exam. The University foreign language requirement is described on page 34 of the catalog.

## SOCIOLOGY DEPARTMENT MINORS

<b>MINOR IN SOCIOLOGY</b> (Not available for Sociology majors)	
<u>COURSE</u>	<b>HOURS</b>
SOC 2300	3
<b>Select 15 hrs from</b> SOC Electives (A minimum of 12 hrs must be advanced)	15
<b>TOTAL HOURS</b>	<b>18</b>

<b>MINOR IN CRIMINOLOGY</b>	
<u>COURSE</u>	<b>HOURS</b>
SOC 2375	3
SOC 3315	3
<b>Select 12 hrs from</b> SOC 3335, 3345, 3375, 4325, 4335, 4385, 4X95	12
<b>TOTAL HOURS</b>	<b>18</b>

## DEPARTMENT OF THEATRE

Professors Craik, Hukill  
Associate Professor Ainsworth

### Mission and Goals:

1. The successful student will be a theatre generalist with basic knowledge, practical skills, and problem-solving ability in all areas of theatre art. This student will embrace a liberal arts approach to theatre training, even within the BFA degree. At some time during the course of their education at McMurry, the successful student will participate in every aspect of play production, in addition to the required course work.
2. The student who excels will be prepared for a professional career in theatre, having had the experience of practical application of theory and analysis to design and performance technique. As a result of classroom instruction in history and theory and the department's production-oriented program, the successful student will engage in a wide range of opportunities to learn experientially and will have built a resume/portfolio in preparation for post-graduate endeavors.
3. The successful student will participate in the presentation of live theatrical performances for the entertainment and cultural enrichment of the McMurry community and the general public.
4. Through hands-on directing, designing and performing, the successful student will use the theatrical arts as a tool for representing humankind's search for meaning in life.

### Special Programs and Opportunities:

**Departmental Productions.** McMurry theatre production auditions are open to all McMurry students with casting preference given to majors and minors. There are at least three faculty directed productions during each academic year. In addition, two to four full-length plays are offered each year by advanced students as senior projects and a series of one-act plays are staged each Spring by the Directing I class.

**Summer Theatre.** The summer theatre program attempts to produce one to three plays each summer in either conventional or dinner theatre formats. Guest directors, designers, and actors are regularly employed to offer the students exposure to as many different approaches to solving the problems of staging a play as possible.

**Original Play Production.** The department is dedicated to producing new plays written by McMurry students. Every other year, the department stages plays written by students of the Playwriting class of the previous year.

**Out of a Trunk Theatre Company.** The members of the company provide educational arts experiences in the public schools by presenting programs and conducting workshops throughout the school year.

**Financial Aid.** Students majoring or minoring in theatre may audition for theatre internships. Auditions are held during student preview weekends and by appointment.

**Departmental Honors.** Please see the description of the Honors Program under the Special Program section earlier in the catalog.

### Courses Taught in the Theatre Department:

FA 2310	Survey of Fine Arts
THRE 1150	Dance: Tap or Jazz
THRE 1300	Introduction to Theatre
THRE 2150	Make-up
THRE 2210	Production I
THRE 2320	Improving Voice and Diction
THRE 2330	Acting I
THRE 2340	Stagecraft
THRE 2350	Costume Construction
THRE 3210	Production II
THRE 3310	Digital Video Capture and Editing
THRE 3320	Directing I
THRE 3325	Theatre and Fine Arts Management
THRE 3330	Acting II
THRE 3344	Fundamentals of Lighting Design
THRE 3345	Fundamentals of Scenic Design
THRE 3350	Theatre Hist & Drama. Lit: Greeks to 19th Century
THRE 3360	Creative Drama
THRE 3365	Theatre Hist & Drama. Lit: 19th Century to Present
THRE 3370	Playwriting
THRE 4320	Advanced Playwriting
THRE 4330	Acting III
THRE 4335	Musical Theatre Practicum
THRE 4340	Advanced Scenic Design
THRE 4350	Costume Design and History
THRE 4363	American Musical Theatre
THRE 4365	Theatre Arts in the Secondary School
THRE 4390	Senior Project in Theatre
THRE 4X95	Independent Studies
THRE 4X96*	Honors Tutorial
THRE 4X99	Special Topics

## BACHELOR OF ARTS THEATRE / ACTING AND DIRECTING FOCUS

**A MINOR IS REQUIRED FOR THE BACHELOR OF ARTS DEGREE**

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

MAJOR IN THEATRE	
<u>THEATRE CORE</u>	HOURS
THRE 2330	3
THRE 2150	1
THRE 2210	2
THRE 2340	3
THRE 3320	3
THRE 3345	3
THRE 4390	3
<b>SUBTOTAL HOURS</b>	<b>18</b>
<u>ACTING AND DIRECTING FOCUS</u>	
<u>COURSE</u>	HOURS
THRE 2320	3
THRE 3350	3
THRE 3365	3
<b>Select 12 hrs from</b> THRE 1150, 2350, 3210, 3310, 3330, 3344, 3370, 4330, 4350	12
<b>TOTAL HOURS</b>	<b>39</b>

**FOREIGN LANGUAGE REQUIREMENT:**

This major requires 1 year of foreign language at the college level, or demonstration of proficiency by taking a CLEP exam or a foreign language proficiency exam. The University foreign language requirement is described on page 34 of the catalog.

# BACHELOR OF ARTS THEATRE / DESIGN AND TECHNOLOGY FOCUS

Theatre

## A MINOR IS REQUIRED FOR THE BACHELOR OF ARTS DEGREE

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <b>World</b> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <b>Society and Self</b> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <b>Health and Fitness</b> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

<b>MAJOR IN THEATRE</b>	
<u>THEATRE CORE</u>	HOURS
THRE 2330	3
THRE 2150	1
THRE 2210	2
THRE 2340	3
THRE 3320	3
THRE 3345	3
THRE 4390	3
<b>SUBTOTAL HOURS</b>	<b>18</b>
<b><u>DESIGN AND TECHNOLOGY FOCUS</u></b>	
<u>COURSE</u>	HOURS
THRE 2350 or 4350	3
THRE 3350	3
THRE 3365	3
<b>Select 12 hrs from</b> THRE 2320, 2350, 3210, 3310, 3344, 3370, 4350	12
<b>TOTAL HOURS</b>	<b>39</b>

### **FOREIGN LANGUAGE REQUIREMENT:**

This major requires 1 year of foreign language at the college level, or demonstration of proficiency by taking a CLEP exam or a foreign language proficiency exam. The University foreign language requirement is described on page 34 of the catalog.

## BACHELOR OF ARTS THEATRE / THEATRE ARTS EDUCATION FOCUS

A MINOR IN CURRICULUM AND INSTRUCTION IS REQUIRED FOR THE B.A. DEGREE IN THEATRE WITH THEATRE ARTS EDUCATION FOCUS

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * *(for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

MAJOR IN THEATRE	
<u>THEATRE CORE</u>	HOURS
THRE 2330	3
THRE 2150	1
THRE 2210	2
THRE 2340	3
THRE 3320	3
THRE 3345	3
THRE 4390	3
<b>SUBTOTAL HOURS</b>	<b>18</b>
<u>THEATRE ARTS EDUCATION FOCUS</u>	
<u>COURSE</u>	HOURS
THRE 2350 or 4350	3
THRE 3344	3
THRE 3350	3
THRE 3365	3
THRE 4365	3
<b>Select 6 hrs from</b> THRE 1150, 2320, 2350, 3210, 3310, 3330, 3370, 4330, 4335, 4350	6
<b>TOTAL HOURS</b>	<b>39</b>

MINOR IN CURRICULUM AND INSTRUCTION (GRADES 8-12)	
<u>COURSE</u>	HOURS
CI 2110	1
<i>The following CI courses listed in this box require admission to the Teacher Education Program.</i>	
CI 3301	3
CI 3302	3
CI 4324	3
CI 4325	3
CI 4125	1
CI 4198	1
CI 4602	6
<b>TOTAL HOURS</b>	<b>21</b>

### FOREIGN LANGUAGE REQUIREMENT:

This major requires 1 year of foreign language at the college level, or demonstration of proficiency by taking a CLEP exam or a foreign language proficiency exam. The University foreign language requirement is described on page 34 of the catalog.



## BACHELOR OF FINE ARTS THEATRE / ACTING AND DIRECTING FOCUS

**A MINOR IN MUSICAL THEATRE OR CREATIVE WRITING IS REQUIRED FOR  
THE B.F.A DEGREE IN THEATRE WITH ACTING AND DIRECTING FOCUS**

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

MAJOR IN THEATRE	
<u>BFA THEATRE CORE</u>	HOURS
THRE 2330	3
THRE 2150	1
THRE 2210	2
THRE 2340	3
THRE 3320	3
THRE 3345	3
THRE 4390	3
<b>SUBTOTAL HOURS</b>	<b>18</b>
<u>ACTING AND DIRECTING FOCUS</u>	
<u>COURSE</u>	HOURS
THRE 2320	3
THRE 3350	3
THRE 3365	3
<b>Select 12 hrs from</b> THRE 1150, 2350, 3310, 3330, 3344, 3370, 4330, 4350	12
<b>TOTAL HOURS</b>	<b>39</b>

MINOR IN MUSICAL THEATRE	
<u>COURSE</u>	HOURS
THRE 3210	2
THRE 4335	3
THRE 4363	3
<b>Select 12 hrs from</b> MUA 1113, 1114, 1115, 1116, 111A, 112A, 0120, 0122, THRE 1150, 4335, MTH 1330, 1340, MLH 2380, 3375, 3380, MUED 3235	12
<b>TOTAL HOURS</b>	<b>20</b>

### **FOREIGN LANGUAGE REQUIREMENT:**

This major requires 1 year of foreign language at the college level, or demonstration of proficiency by taking a CLEP exam or a foreign language proficiency exam. The University foreign language requirement is described on page 34 of the catalog.

## BACHELOR OF FINE ARTS THEATRE / ACTING AND DIRECTING FOCUS

**A MINOR IN MUSICAL THEATRE OR CREATIVE WRITING IS REQUIRED FOR  
THE B.F.A DEGREE IN THEATRE WITH ACTING AND DIRECTING FOCUS**

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * *(for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

MAJOR IN THEATRE	
<u>BFA THEATRE CORE</u>	HOURS
THRE 2330	3
THRE 2150	1
THRE 2210	2
THRE 2340	3
THRE 3320	3
THRE 3345	3
THRE 4390	3
<b>SUBTOTAL HOURS</b>	<b>18</b>
<u>ACTING AND DIRECTING FOCUS</u>	
<u>COURSE</u>	HOURS
THRE 2320	3
THRE 3350	3
THRE 3365	3
<b>Select 12 hrs from</b> THRE 1150, 2350, 3310, 3330, 3344, 3370, 4330, 4350	12
<b>TOTAL HOURS</b>	<b>39</b>

CREATIVE WRITING (Courses cannot count in both major and minor)	
<u>COURSE</u>	HOURS
THRE 4320	3
PHIL 2350	3
<b>Select 3 hrs from</b> ENG 2* (Any sophomore level literature class)	3
<b>Select 3 hrs from</b> ENG 4372, 4375	3
<b>Select 6 hrs from</b> ENG 4371, 4374 PHIL 3330, 4320 THRE 4363	6
<b>TOTAL HOURS</b>	<b>18</b>

### FOREIGN LANGUAGE REQUIREMENT:

This major requires 1 year of foreign language at the college level, or demonstration of proficiency by taking a CLEP exam or a foreign language proficiency exam. The University foreign language requirement is described on page 34 of the catalog.

## BACHELOR OF FINE ARTS THEATRE / DESIGN AND TECHNOLOGY FOCUS

A MINOR IN THEATRE GRAPHIC DESIGN AND PROMOTION IS REQUIRED  
FOR THE B.F.A. DEGREE IN THEATRE WITH DESIGN AND TECHNOLOGY FOCUS

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
<b>LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs)</b> Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
<b>MATHEMATICS (3 hrs)</b> Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
<b>WRITTEN COMMUNICATION (6 hrs)</b> ENG 1310 ENG 1320	3 3
<b>ORAL COMMUNICATION (3 hrs)</b> COMM 1310, 2330	3
<b>CRITICAL REASONING (3 hrs)</b> Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
<b>UNDERSTANDING CHRISTIAN TRADITION (3 hrs)</b> Select 3 hrs from REL 1310, 1330, 2330, 2340	3
<b>FINE ARTS (3 hrs)</b> Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
<b>GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs)</b> <i>World</i> Select 3 hrs from ENG 2330, HIST 1310, 1320, REL 2350, PSC 2350, SOC 2310, 2320 <i>Society and Self</i> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <i>Health and Fitness</i> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3  6  2
<b>NATURAL SCIENCE (4 hrs)</b> (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
<b>TOTAL HOURS</b>	<b>39</b>

MAJOR IN THEATRE	
<u>BFA THEATRE CORE</u>	HOURS
THRE 2330	3
THRE 2150	1
THRE 2210	2
THRE 2340	3
THRE 3320	3
THRE 3345	3
THRE 4390	3
<b>SUBTOTAL HOURS</b>	<b>18</b>
<u>DESIGN AND TECHNOLOGY FOCUS</u>	
<u>COURSE</u>	HOURS
THRE 2350 or 4350	3
THRE 3350	3
THRE 3365	3
<b>Select 12 hrs from</b> THRE 2320, 2350, 3310, 3344, 3370, 4350	12
<b>TOTAL HOURS</b>	<b>39</b>

MINOR IN THEATRE GRAPHIC DESIGN AND PROMOTION	
(This minor is required for Design and Technology focus)	
<u>COURSE</u>	HOURS
THRE 3210	2
THRE 3325	3
THRE 4340	3
<b>Select 12 hrs from</b> ART 1310, 2300, 2323, 3330, 3334, MMA 2310 MKTG 3370, 3380,	12
<b>TOTAL HOURS</b>	<b>20</b>

**FOREIGN LANGUAGE REQUIREMENT:**

This major requires 1 year of foreign language at the college level, or demonstration of proficiency by taking a CLEP exam or a foreign language proficiency exam. The University foreign language requirement is described on page 34 of the catalog.

## THEATRE DEPARTMENT MINORS

<b>MINOR IN THEATRE</b> (Not available for Theatre majors)	
<u>COURSE</u>	<u>HOURS</u>
THRE 2330	3
THRE 2340	3
THRE 2210	2
THRE 3320	3
<b>Select 7 hrs from</b> THRE electives (a minimum of 3 hrs must be advanced)	7
<b>TOTAL HOURS</b>	<b>18</b>

<b>MINOR IN CREATIVE WRITING</b>	
<u>COURSE</u>	<u>HOURS</u>
PHIL 2350	3
<b>Select 3 hrs from</b> THRE 3370, 4320	3
<b>Select 3 hrs from</b> ENG 2* (Any sophomore level literature class)	3
<b>Select 3 hrs from</b> ENG 4375, 4372	3
<b>Select 6 hrs from</b> THRE 2330, 4320, 4363 ENG 4371, 4372, 4374, 4375 PHIL 3330, 4320	6
<b>TOTAL HOURS</b>	<b>18</b>

<b>MINOR IN MUSICAL THEATRE</b>	
<u>COURSE</u>	<u>HOURS</u>
THRE 3210	2
THRE 4335	3
THRE 4363	3
<b>Select 12 hrs from</b> MUA 1113, 1114, 1115, 1116, 111A, 112A, 0120, 0122, THRE 1150, 4335, MTH 1330, 1340, MLH 2380, 3375, 3380, MUED 3235	12
<b>TOTAL HOURS</b>	<b>20</b>

<b>MINOR IN THEATRE GRAPHIC DESIGN AND PROMOTION</b> (Not available for MMA & Graphic Design majors)	
<u>COURSE</u>	<u>HOURS</u>
THRE 3210	2
THRE 3325	3
THRE 3345	3
<b>Select 12 hrs from</b> ART 1310, 2300, 2323, 3330, 3334, MMA 2310 MKTG 3370, 3380,	12
<b>TOTAL HOURS</b>	<b>20</b>

# GRADUATE STUDIES

*Dr. Marian Kirk  
Director of Graduate Studies*

*Inquires may be made by calling:  
Dr. Kirk at 325.793.4895 or  
the Registrar at 325.793.3808.  
Emails may be directed to:  
gradstudies@mcm.edu*

## Mission

The mission of McMurry University is to provide a Christian liberal arts and professional education that prepares students for a fulfilling life of leadership and service. The purpose of the Graduate Studies program is to advance the mission of the University through the rigorous pursuit of knowledge and by developing leaders capable of serving the needs of a global society.

## DEGREE OFFERED:

Master of Science in Nursing (MSN)

Two tracks available:

- Education
- Family Nurse Practitioner

## ADMISSION REQUIREMENTS

### Full Admission

- The completed Graduate School application form, together with the \$35 non-refundable application fee and other required documents, should be received in the Office of the Registrar by July 1, if applying for fall admission, or November 1, if applying for spring admission. The applicant should indicate on the form the particular program for which he/she is applying.
- A baccalaureate degree from a regionally accredited college or university is required. A final official transcript, in English, from each school attended is required and should be mailed to the Office of the Registrar directly from each institution attended. The application will become void if a baccalaureate degree is not earned by the time of matriculation. Some graduate programs may require specific undergraduate degree or subset of courses taken as part of undergraduate preparation.
- Overall undergraduate GPA should not be less than 3.00. However, individual graduate programs may have higher requirements. Specific graduate programs may also put additional GPA requirements in the major or certain subset of undergraduate courses.
- Individual graduate programs may require minimum GRE or other standardized tests (appropriate to particular field of study).

- Essay, writing sample, and other requirements as specified will be determined by individual graduate programs.
- Number and types of recommendation letters and/or work experience are to be specified by individual graduate programs.

**International students** must meet the same requirements as other students applying to a graduate program, along with the following requirements:

- If English is not the native language, an official TOEFL score is required: 213 on the computer based; 550 on the paper based; 79 on the internet based TOEFL. (Official means the score must be sent directly from ETS to McMurry). Individual graduate programs may also put additional requirements on TOEFL subsection scores.
- Official academic transcripts must show evidence of completion of international equivalent of bachelor's degree.
- Individual graduate programs may add additional requirements to transcript/degree certification.
- International applicants must satisfy all academic admission requirements before a Form I-20 can be issued and before they leave their home countries.
- Provide an affidavit of support or a statement from the bank of financial responsibility.
- A deposit is required for international students who wish to live in the residence hall.

### Conditional Admission

Students who do not meet all requirements for full graduate admission may be considered for conditional admission by the graduate department based on criteria that demonstrate the applicant's ability for success in that department's graduate program. Students who are admitted conditionally may be restricted to explicit conditions during the first semester of enrollment, including but not limited to, a restricted number of hours, earned GPA, and/or undergraduate prerequisite work, as required by the Graduate Council. The student will not be permitted to register for the subsequent semester if prescribed conditions are not met.

### Tentative Admission

Tentative admission status may be granted temporarily for a student who has met all the requirements but has been unable to provide all the necessary materials, such as a final official transcript for courses in progress at time of matriculation. Students must be removed from tentative status before registering for the subsequent semester. (International students are not eligible for tentative admission.)

### Delayed Admission

The letter of acceptance provided to the student will be for the specified semester only. If the student wishes to delay admission for one long semester, a written notification must be submitted to the Registrar. The Registrar will notify the appropriate major depart

## Graduate Studies

ment. If admission is delayed beyond one semester, a new application must be submitted, along with all required documents.

### **Non-Degree Admission**

A student may apply as a non-degree student by completing the non-degree application, which is obtained at the Registrar's office, and submitting all official transcripts. Admission as a non-degree student is not a guarantee of a successful admission into McMurry's graduate program for a later term or that the credits earned as non-degree will count towards the graduate degree. Some courses require admission to the program and/or departmental approval before enrolling as a non-degree student.

The non-degree status is for 1 semester only, not to exceed 9 credit hours. In order to continue taking graduate courses, the student must be admitted to the graduate school through the regular graduate admission process. There is no financial aid available for non-degree status.

### **Re-Admission**

A student who withdraws from classes during a fall or spring semester or who is not enrolled for one long semester must complete a Readmission Application with the Registrar's office. Readmission to the graduate program is subject to the approval of the major department. Readmission applications should be completed and on file with the Registrar's office at least 30 days prior to the beginning of the semester in which the student wishes to return to McMurry.

A student who is not enrolled in the M.S.N program for a period of 1 year will be required to re-apply for admission to the program through PHSSN.

## **ACADEMIC PROGRESS**

At the conclusion of each fall and spring semester, the major department evaluates the progress of each student and determines whether or not good academic standing has been maintained.

Individual departments or programs may have additional criteria above the minimum university academic standards, and, if so, the departmental standards will be the requirement for determining satisfactory academic progress.

### **Academic probation**

If the cumulative GPA falls below 3.0 the student is placed on academic probation. The student must raise the cumulative GPA to a minimum of 3.0 by the end of the next two successive long semesters. The status of "Academic Probation" will be notated on the official transcript. A student cannot graduate while on academic probation

### **Academic suspension**

A student on academic probation who fails to raise the cumulative GPA to 3.0 in the allotted timeframe is then suspended. A student may be suspended if a grade of D, F, or WF is earned in any semester.

Students must appeal directly to the Graduate Council to have their academic suspension lifted. The student may only be readmitted to the graduate program according to the recommendations and approval of the major department and the Graduate Council.

The status of "Academic Suspension" will be notated on the official transcript. A student cannot enroll or graduate while on academic suspension.

## **GRADUATE COURSE WORK**

No graduate credit will be granted for courses that were taken at the undergraduate level or a course less than the 5000 level, either at McMurry or elsewhere. Students must have an appropriate baccalaureate degree in order to enroll in graduate level courses at McMurry.

## **TIME FOR DEGREE COMPLETION**

The graduate degree must be completed six academic years from term of initial enrollment in the graduate program. Any student who does not graduate within the six year time limit must meet the requirements of the most current catalog and petition the Graduate Council to continue in the graduate program under the new degree plan.

## **TRANSFER HOURS**

A limited number of credit hours taken at another regionally accredited college or university may be considered for transfer if applicable to the student's graduate program at McMurry. A maximum number of six credit hours may be transferred at the graduate level. Such credits must be taken within five academic years of initial enrollment, must carry a "B" grade (3.0 on a 4.0 scale), and must be approved by the major department.

## **WITHDRAWING FROM THE UNIVERSITY**

If withdrawing during a semester of enrollment is necessary, the student must obtain the appropriate paperwork from the Registrar's office. The form requires the signature of several campus offices, including the Business and Financial Aid offices. If procedure is not followed, the student is subject to receiving a grade of F in all courses. No student may withdraw after the last date of withdrawal specified in the academic calendar.

## **SECOND MASTER'S DEGREE**

Students who are either currently enrolled in or have previously earned a master's degree may apply for an additional master's degree from McMurry.

Approval of a 2nd master's degree must meet the following requirements:

- All requirements for the 2nd master's degree must be satisfied.
- Permission to work on a 2nd master's degree concurrently is subject to approval of the Graduate Council.
- A total of 24 hours must be earned in resident McMurry courses for the 2nd master's degree.
- With approval from the major department of the 2nd master's degree, a maximum of 6 hours earned for the previous master's degree, may be applied.
- Courses applying to the 2nd degree must carry a minimum "B" grade.
- Only non-capstone/thesis/internship credits will be considered for possible transfer credit.
- All credit hours for the 2nd master's degree must be earned within five academic years following matriculation.

## Patty Hanks Shelton School of Nursing

*Nina Ouimette, Associate Professor and Dean  
Indira Tyler, Interim Graduate Director  
Valerie Miller, FNP Coordinator*

### *Offices located at:*

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### **Faculty**

*Jeanne Tucker, Instructor  
Janet Viola, Associate Professor  
Andrea Cheek, Instructor*

### **Introduction**

The mission of the School of Nursing graduate program is based on the underlying philosophy and objectives of the consortium universities. The school exists for the purpose of preparing advanced practice nurses equipped with an understanding and conceptual integration of nursing's role in today's complex health care environments worldwide.

The purpose of the Master of Science in Nursing program is to prepare nurses to assume leadership roles in advanced family nurse practitioner positions, educators, or managers of patient care services within a variety of institutions or health care agencies. In addition, students are guided to incorporate theory and the research process in a variety of roles and practical settings.

The graduate program of the Patty Hanks Shelton School of Nursing (PHSSN) functions within the structure of an educational consortium consisting of Abilene Christian University, Hardin Simmons University, and McMurry University. It offers a Master of Science in Nursing degree (MSN) with a focus on education and administration or family nurse practitioner. The program faculty accepts the underlying philosophy and objectives of the consortium universities that individuals be educationally prepared in a manner that promotes the development of intellectual, cultural, moral and religious values.

Faculty believe that nursing is a profession that is responsive to the changing health care needs of individuals and is supported by an expanding body of knowledge. Graduate students, through study and interdisciplinary collaboration, expand their understanding of health, environment, person and nursing roles.

Building upon a baccalaureate nursing education, the faculty believes that development of critical thinking, communication, clinical skills, creativity

and self-direction are essential elements in graduate nursing education. Through the educational process faculty seek to promote awareness of social, cultural and ethnic diversity, believing it enriches professional growth and development. The collaborative educational process between the faculty and students promotes progressive mastery and increased learner maturity. Implicit in advanced practice nursing is the acceptance of accountability for lifelong learning, professional growth, competent practice and effective leadership.

### **Program Outcomes**

1. Demonstrate proficiency in a specific practice area;
2. Develop strategies that incorporate theories and models from nursing and related disciplines for advanced practice;
3. Implement scientific inquiry to replicate, validate and test theories relevant to nursing;
4. Analyze cultural, social, ethical, economic and political perspectives that influence the health care delivery system;
5. Integrate the multi-roles of the nurse for interdisciplinary practice and advancement of optimum health care delivery;
6. Integrate critical thinking skills into oral and written communications.

### **Additional Outcomes for the Family Nurse Practitioner**

The program outcomes of the nurse practitioner clinical concentration are to prepare nurses to provide primary care to clients of all ages in a variety of settings. The nurse practitioner has advanced expertise in the promotion and maintenance of optimal wellness and in the management of acute and chronic common health problems and chronic illnesses. Graduates of the MSN program who complete the nurse practitioner clinical concentration should be able to:

1. Use the nursing process to deliver advanced, comprehensive primary care to individuals and families throughout the life cycle in a variety of settings.
2. Assess community health education and service needs and resources and implement appropriate interventions and programs.
3. Collaborate with other health care providers to develop and implement appropriate treatment plans for individuals and families in primary settings.
4. Establish and implement protocols for consultation with and referral to physicians.
5. Prepare to take a national certification exam and petition the Board of Nurse Examiners for recognition as an Advanced Practice Nurse.

Applicants for the Master of Science in Nursing degree must hold a Bachelor of Science in Nursing degree from a regionally accredited school or university whose nursing program is NLN or CCNE accredited.



### Admission Requirements

Admission criteria are listed in the Graduate School Admission Requirements section of the catalog.

In addition to the general Graduate School requirements, the following criteria will be required of all applicants to the nursing program. Admission to graduate study in nursing requires meeting the Academic Standards and the Departmental Endorsement requirements as listed below.

### Academic Standards

1. Overall undergraduate GPA of 3.0.
2. GPA of 3.0 in all undergraduate course work in nursing.
3. Entrance test score: Graduate Record Exam (GRE) 850 (minimum) verbal and quantitative; 3.5 writing.

### Departmental Endorsement

Admission to the MSN requires the following to be submitted to or conducted by the School of Nursing:

1. Unencumbered licensure to practice as an RN in Texas and in good standing with the Board of Nurse Examiners.
2. Minimum of one year of clinical nursing practice.
3. Three letters of recommendation. Recommendations should be obtained from supervisors having knowledge of your clinical skills, work ethic and style, and/or professors attesting to your academic achievements and potential success in a graduate nursing program.
4. Completion of a PHSSN application sent by the School of Nursing.
5. Interview with program director.
6. For students whose first language is not English, an officially reported Test of English as a Foreign Language (TOEFL) score of at least 550 (written).
7. A completed PHSSN Health Form and proof of current immunization status.
8. ACLS (Advanced Cardiac Life Support Certification) is required for students prior to beginning clinical courses.

### Provisional Admission

Provisional admission to graduate study in nursing requires the Graduate Record Exam (GRE) and one of the two GPA **Academic Standards** as listed above and obtaining **Departmental Endorsement**. Students granted provisional admission must maintain a 3.0 GPA during their first 9 hours of graduate work to be eligible to receive full admission and to continue graduate study. The provisional applicant is strongly encouraged to submit the application and all supporting documents by March 1.

### Academic Standards following Admission:

- Must maintain a B average.
- Must make a grade of B or higher for promotion in the curriculum.
- A grade below C does not meet criteria for promotion in program and results in immediate and permanent dismissal.
- If two Cs are earned, immediate and permanent dismissal will result.

## MASTER OF SCIENCE IN NURSING

McMurry University and PHSSN offer the MSN degree with a choice of two available tracks:

- Education
- Family Nurse Practitioner

Students must complete all requirements for their degree program within six years of the initial semester of enrollment.

### Exit Requirements

The following criteria must be met to be eligible for graduation from the MSN program:

1. Minimum cumulative GPA of 3.0 (on a 4.0 scale);
2. Successful completion of all course work required for the chosen degree.

### Requirements for the MSN / Education track (33 hrs):

❖ All Classes held on Tuesdays.

#### FALL SEMESTER

NURS 5230	Adv Pathophysiology I
NURS 6310	Nursing Theories
NURS 6320	Nursing Research

#### SPRING SEMESTER

NURS 5270	Adv Pathophysiology II
NURS 6330	Policies and Strategies for Health Care Delivery
NURS 6342	Advanced Health Assessment

#### SUMMER SEMESTER

NURS 6350	Curriculum Design & Development
NURS 6352	Roles of the Nurse Educator

#### FALL SEMESTER

NURS 6241	Pharmacotherapeutics I for Nurses in Advanced Practice
NURS 6351	Instructional Methods, Testing, & Measurements

#### SPRING SEMESTER

NURS 6242	Pharmacotherapeutics II for Nurses in Advanced Practice
NURS 6450	Education Practicum

**Requirements for the MSN / Family Nurse Practitioner Track (44 hrs):**

Prerequisite for the MSN for Family Nurse Practitioner is proof of a physical assessment course.

- ❖ 1st Year Students – All Classes held on Tuesdays.

FALL SEMESTER

NURS 5230	Adv Pathophysiology I
NURS 6241	Pharmacotherapeutics I for Nurses in Advanced Practice
NURS 6310	Nursing Theories
NURS 6320	Nursing Research

SPRING SEMESTER

NURS 5270	Adv Pathophysiology II
NURS 6242	Pharmacotherapeutics II for Nurses in Advanced Practice
NURS 6330	Policies and Strategies for Health Care Delivery
NURS 6342	Advanced Health Assessment

- ❖ 2nd Year Students – All Classes held on Wednesdays.

SUMMER SEMESTER

NURS 5301	Medical Spanish I
NURS 6334	Skills for the Adv Practice Nurse

- ❖ In addition to class, clinicals are held 2 days a week.
- ❖ These clinicals can be done close to student's home.

FALL SEMESTER

NURS 5302	Medical Spanish II
NURS 6451	Family Nurse Practitioner I

SPRING SEMESTER

NURS 6340	Role Development for Advanced Practice
NURS 6452	Family Nurse Practitioner II

SUMMER SEMESTER

NURS 6453	Family Nurse Practitioner III
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## Master of Science in Nursing

<b>EDUCATION TRACK</b>	
COURSES	HOURS
<u><b>Fall Semester</b></u>	
NURS 5230	2
NURS 6310	3
NURS 6320	3
<u><b>Spring Semester</b></u>	
NURS 5270	2
NURS 6330	3
NURS 6342	3
<u><b>Summer Semester</b></u>	
NURS 6350	3
NURS 6352	3
<u><b>Fall Semester</b></u>	
NURS 6241	2
NURS 6351	3
<u><b>Spring Semester</b></u>	
NURS 6242	2
NURS 6450	4
<b>TOTAL HOURS</b>	<b>33</b>

<b>FAMILY NURSE PRACTITIONER TRACK</b>	
COURSES	HOURS
<u><b>Fall Semester</b></u>	
NURS 5230	2
NURS 6241	2
NURS 6310	3
NURS 6320	3
<u><b>Spring Semester</b></u>	
NURS 5270	2
NURS 6242	2
NURS 6330	3
NURS 6342	3
<u><b>Summer Semester</b></u>	
NURS 5301	3
NURS 6334	3
<u><b>Fall Semester</b></u>	
NURS 5302	3
NURS 6451	4
<u><b>Spring Semester</b></u>	
NURS 6340	3
NURS 6452	4
<u><b>Summer Semester</b></u>	
NURS 6453	4
<b>TOTAL HOURS</b>	<b>44</b>

## Graduate Course Descriptions

### NURS 5230

#### **Advanced Pathophysiology I**

Scientific concepts of pathophysiology essential to diagnostic reasoning and clinical management of disease states. Emphasis placed on concepts related to genetic, cellular, and biochemical pathophysiology. Course designed to meet the educational needs of graduate nursing students.

### NURS 5270

#### **Advanced Pathophysiology II**

Scientific concepts of pathophysiology related to diagnostic reasoning and clinical decision-making in advanced nursing practice, with emphasis on common disease processes affecting major systems.

### NURS 5301

#### **Medical Spanish I**

An intensive Spanish class open only to students in the PHSSN, composed of grammar review, vocabulary building, and oral Spanish skills needed in the medical field.

### NURS 5302

#### **Medical Spanish II**

Advanced medical Spanish class open only to students in the PHSSN, composed of grammar review, vocabulary building, and oral Spanish skills needed in the medical field.

### NURS 6241, 6242

#### **Pharmacotherapeutics for Nurses in Advanced Practice I and II**

Focuses on the pharmacologic and pharmacokinetic principles applicable to frequently prescribed drugs in advanced nursing practice. The emphasis of study is on pharmacologic agents used in the prevention and management of common acute or recurrent health problems.

### NURS 6310

#### **Nursing Theories for advanced Healthcare Delivery**

Analysis and critique of selected theories from nursing and other disciplines for application to healthcare delivery and to advanced nursing practice.

### NURS 6320

#### **Nursing Research**

Introduces analytical and critical thinking, scientific concepts, methods and decisions, ethical and legal concerns, and research techniques essential to the research process.

### NURS 6330

#### **Policies and strategies for Advanced Health care Delivery**

Focuses on health policy and the role of the health professions in the development, implementation, and influence on advanced healthcare delivery. Factors influencing health policy to be addressed include: ethics, demographics, delivery, social, political, scientific, fiscal, and other concerns. Health policy is analyzed in relation to cost-effectiveness or cost-benefit ratio. The effects of theories and research on health policy, healthcare

programs, priorities of healthcare, source and numbers of providers, healthcare research, and funding sources will be addressed.

### NURS 6334

#### **Skills for Advanced Practice Nurses**

Builds on previous knowledge gained in microbiology, physiology, advanced pathophysiology, and pharmacotherapeutics for nurses in advanced practice. Focuses on application of laboratory methods, diagnostic methods, and primary care procedures for the advanced practice nurse role.

### NURS 6340

#### **Role Development for Advanced Practice**

Analysis of role theories and application to the multi-dimensional roles of the nurse in advanced practice. Emphasis on integration of these roles in the healthcare system.

### NURS 6342

#### **Advanced Health Assessment**

Develops and refines technical skills, critical thinking, and diagnostic reasoning in performing accurate comprehensive health assessments. Students perform health histories, physical examinations, and selected laboratory tests. Emphasis is on distinguishing normal variants from pathological changes across the lifespan. (10 clinical hours)

### NURS 6350

#### **Curriculum Design and development**

Focus on concepts and theories basic to content and curriculum development in an academic or client-centered setting.

### NURS 6351

#### **Instructional Methods, Testing and Measurements**

Provides an overview of evaluation techniques that enables nurses to plan and implement a variety of education-related evaluation approaches including test construction, item analysis, teaching effectiveness and clinical performance appraisals. Emphasis is on classroom/clinical instruction and evaluation and includes instructional technology.

### NURS 6352

#### **Roles of the Nurse Educator**

Students will examine the various activities inherent in the role of the nurse educator with emphasis on the development and use of traditional and creative teaching and evaluation methods.

### NURS 6450

#### **Education Practicum**

Practical experiences that apply teaching/learning principles and theories, and evaluation methods in classroom and clinical settings. Practicum is supervised by experienced faculty and includes seminar discussion focusing on solution to contemporary issues in nursing education.

### NURS 6451

#### **Family Nurse Practitioner I**

Study of the major concepts and therapies necessary to implement the FNP role in primary healthcare. Emphasis is on analysis and application of research, theories, health policy, and clinical skills essential to health promotion, disease prevention, and early detection and management of health problems across the lifespan. Clinical experiences in selected primary care sites. (228 clinical hours)

**NURS 6452****Family Nurse Practitioner II**

Progressive analysis of concepts and therapies used in the assessment and management of acute and chronic health issues of women and pediatric clients. Exploration of professional, legal, cultural, and ethical issues relating to these special populations. Clinical experiences relating to obstetrics, gynecology, and pediatrics are emphasized. (228 clinical hours)

**NURS 6453****Family Nurse Practitioner III**

Progressive analysis of concepts and therapies used in the assessment and management of the geriatric client. Clinical practicum in selected primary health sites provide the opportunity to explore and apply knowledge and skills in guided family practice context. This final clinical course in the FNP track requires students to integrate and apply all previous attained knowledge relating to the APN roles. (144 clinical hours)

**NURS 6X99****Special Topics (1-3 hours credit)**

Designed to meet special needs of individuals or special students. Offered as needed. May be repeated when topics is changed.



## Course Descriptions - Undergraduate

### ACCOUNTING

#### ACCT 2310

**Financial Accounting (3-0)** Prerequisites: None. An introduction to accounting as a device for reporting business activity. The underlying principles of accounting are studied in addition to the construction and interpretation of financial statements as they apply to corporations. (Spring, Fall) (TCCN ACCT 2301)

#### ACCT 3303

**Accounting Systems (3-0)** Prerequisite: ACCT 2310. A study of information systems and of their role in the performance of the accounting function in business organizations; patterns of flow of accounting data and information in business; the principle of internal control; the use of computers in accounting information. (Spring)

#### ACCT 3305

**Managerial Accounting (3-0)** Prerequisite: ACCT 2310. The managerial uses of accounting data; analysis and interpretation of accounting reports; cost control, and methods of measuring performance. May not be used to complete degree requirements in Accounting concentration. (Fall)

#### ACCT 3307

**Fund Accounting (3-0)** Prerequisite: ACCT 2310. The application of accounting principles to governmental units, other not-for-profit institutions. A presentation of "fund" accounting including budgets and reports. (Spring even years)

#### ACCT 3311

**Intermediate Accounting I (3-0)** Prerequisite: ACCT 2310. The development of accounting theory with emphasis given to generally accepted accounting principles as applied to the balance sheet, the income and retained earnings statements, the recording process, current assets, current liabilities, and long-term investments. (Fall)

#### ACCT 3312

**Intermediate Accounting II (3-0)** Prerequisite: ACCT 3311. A continuation of accounting theory as applied to plant and equipment, intangible assets, long-term liabilities, capital stock, retained earnings, and statement analysis. (Spring)

#### ACCT 3330

**Cost Accounting (3-0)** Prerequisite: ACCT 2310. Applications of concepts of cost and managerial accounting in providing cost data for planning and controlling routine manufacturing, productive and supporting operations. The course emphasizes the relevance of cost concepts to modern decision tools. (Spring)

#### ACCT 3370

**Introduction To Taxation (3-0)** Prerequisite: ACCT 2310. An introduction to the taxation of individuals and fundamental tax provisions applicable to all taxable entities. These provisions include gain and loss recognition basis, capital gains, and business expenses. (Fall)

#### ACCT 4360

**Advanced Topics In Taxation (3-0)** Prerequisite: ACCT 3370. Advanced phases of taxation to include; fiduciary, partnership and corporate problems. Also covers estate and gift taxation. (Spring odd years)

#### ACCT 4365

**Federal Tax Research (3-0)** Prerequisite: ACCT 3370. Fundamentals of research procedures used to identify tax is-

sues, locate and evaluate diverse sources of authority, reach conclusions, and make recommendations. The course places an emphasis on the use of online databases and computerized research tactics. Also covers ethical issues and professional responsibility of tax return preparers. (Spring even years)

#### ACCT 4370

**Topics in Advanced Accounting (3-0)** Prerequisite: ACCT 3312. Accounting theory as applied to partnerships, bankruptcy, multinational transactions, and derivative instruments. Includes research project(s) using FASB Codification and other authoritative sources. (Fall)

#### ACCT 4371

**Advanced Accounting (3-0)** Prerequisite: ACCT 3312. Accounting theory as applied to combined corporate entities. Includes research project(s) using FASB Codification and other authoritative sources. (Spring)

#### ACCT 4X88

**Internship (variable credit)** A pre-approved and supervised work experience designed to supplement academic training. Credit may be granted for one, two, or three semester hours. A student completing a dual concentration could be eligible for an internship in each concentration; however, a separate internship work experience would be required for each concentration. Interested students should discuss this course with the Director of Business Internships. (Spring, Fall)

#### ACCT 4390

**Auditing Theory And Practice (3-0)** Prerequisite: ACCT 3312, B A 3370, ACCT 3303. Introduction to audit theory and the nature of auditing. Emphasis on understanding the accounting profession and the relationship between the firm, the auditor, and external users of financial statements; as well as, developing the skills and knowledge to become an auditor. (Fall)

#### ACCT 4X95

**Independent Studies (variable credit)** Prerequisites: Senior standing and consent of the Dean. A study program arranged between an advanced student and an instructor to provide intensive study in a particular area of interest. The course includes a definition of goals appropriate for the advanced student, ways of attaining those goals, a schedule for frequent consultation, and means of measuring progress. (By arrangement)

#### ACCT XX99

**Special Topics (variable credit)** Prerequisite: Permission of instructor. A course of study offered occasionally to groups of students to broaden departmental curriculum, to meet student demand, or to observe special events. May be repeated for credit when topics vary.

### ART

#### ART 1300

**Exploring the Visual Arts (3-0)** Prerequisites: None. A required course for BFA, BA, and Art Minor, fulfills general education requirements in Fine arts. This course is for any student interested in visual cultural enrichment. It is an overview of how to look at art and a basic understanding of what is involved in the creation, analysis and appreciation of any particular work of art. Examples of art from around the world and from the past to present will be studied in image-based lectures, discussions, demonstrations, hands-on activities and field trips to art galleries and museums. (Fall, Spring, Summer) (TCCN ARTS 1301)

#### ART 1310

**Elements of Design I (0-6)** Prerequisites: None. Required for BFA, BA, Art Minor. A foundation course for all Art majors and minors. The basic concepts of composition and relationships of

## Course Descriptions - Undergraduate

space, form, light, color, shape and texture are explored in assignments. The students will critique and evaluate their designs. The students will recognize composition, art element, and principles used by other artists. (Fall, Spring) (TCCN ARTS 1311)

### ART 1313

**Basic Pottery (0-6)** Prerequisites: None. Required for BFA, BA, and minor in Art. The study of line, form, space, texture, and the art principles applied to ceramics. An introduction to ceramic processes and personal self-expression, to include image based lecture, slides, field trips, demonstrations, and studio work. Students will evaluate their art and research and respond to, historic and contemporary works of art made using ceramics. Basic techniques in the use of clay, including handbuilding, throwing on the potter's wheel, glazing and firing, will be covered. A materials fee is charged for this course. (Spring) (TCCN ARTS 2346)

### ART 2300

**Fundamentals of Drawing (0-6)** Prerequisites: None. Required for BFA, BA optional for minor in Art. This basic art course explains visual awareness and prepares the student to solve problems in drawing. Technical skill are developed in the use of black and white media, linear and aerial perspective, shading, proportion, texture and structure analysis. (Fall) (TCCN ARTS 1316)

### ART 2301

**Art History I (3-0)** Prerequisites: ART 1300 or permission of instructor. Required for BFA, optional elective for BA. Survey of Western European and non-European art history from Pre-historic to Gothic: painting, sculpture, architecture, and decorative art forms typical of each period—and their artistic significance—as records of the spiritual and social evolution of humankind. Image-based lectures, discussions, quizzes, exams, DVD's/videos, field trips to museums and galleries. (Fall) (TCCN ARTS 1303)

### ART 2302

**Art History II (3-0)** Prerequisite: ART 1300. Required course for BFA, choice for BA. Survey of Western European and non-European art history from proto-Renaissance to Modern times: painting, sculpture, architecture, and decorative art forms typical of each period—and their artistic significance—as records of the spiritual and social evolution of humankind. Image-based lectures, discussions, quizzes, exams, DVD's/videos, field trips to museums and galleries. (Spring) (TCCN ARTS 1304)

### ART 2304

**Creative Drawing (0-6)** Prerequisites: None. Required for BFA, optional for minor in Art, optional elective for BA. This course teaches creative and expressive use of the technical skills learned in Fundamentals of Drawing. A variety of drawing media is used to further develop the conceptual and aesthetic aspects of students' drawings. (Spring even years) (TCCN ARTS 1317)

### ART 2310

**Painting I (0-6)** Prerequisites: ART 1310, 2300 or 2304, or permission of instructor. Required for BFA, BA, optional for minor in Art. Emphasis on fundamentals of painting techniques, stretching canvases, composition, color, spatial illusion, and study of artists related to studio problems. Expressive interpretation in acrylic from still life, landscape, abstraction and/or non-objective. Lectures, slides, videos, studio work, critiques, field trips and demonstration are involved in this painting course. (Spring) (TCCN ARTS 2316)

### ART 2313

**Techniques in Wheel Throwing (0-6)** Prerequisites: ART 1313 or permission of instructor. A refining of the basic skills in the use of the potter's wheel learned in Basic Pottery. The students should learn the importance of form to function

and decoration and aesthetic judgments. Lectures, slides, videos, studio work, critiques and demonstration are involved in this pottery course. (Fall)

### ART 2314

**Techniques in Handbuilding (0-6)** Prerequisites: ART 1313 or permission of instructor. An investigation of slab, pinch, coil and other alternative methods to the potter's wheel, to develop forms and textures in functional and sculptural forms. Lectures, images, studio work, research and critiques are involved in this pottery course. (Spring even years)

### ART 2321

**Three-Dimensional Design (0-6)** Prerequisites: ART 1310 or permission of instructor. Required for BFA and BA. Study of line, form, space and texture in three-dimensional materials and concepts. Study of artists related to class studio problems, through slides, lectures, critiques, videos, field trips to museums and galleries. A materials fee is charged for this course. (Spring odd years, and as needed) (TCCN ARTS 2311)

### ART 2323

**Fundamentals of Photography (0-3)** Prerequisites: None. The introduction to the use of 35mm single lens reflex cameras. Visual and technical aspects of photography emphasized. Extensive instruction on darkroom procedures culmination in the preparation of a student photographic portfolio of photographs taken and printed during the class. Lecture and lab 6 hours a week. A materials fee is charged for this course. (Fall, Spring as needed.) (TCCN ARTS 2356)

### ART 3310,3320

**Life Drawing I and II (0-6)** Prerequisites: ART 2300 or 2304 or permission of instructor. Drawing of the human figure in a variety of media. Problems in construction and composition of the figure, drawing from skeleton and live models. (Spring odd years)

### ART 3315

**Ceramic Sculpture (0-6)** Prerequisites: ART 1313 or permission of instructor. The use of clay as a sculptural media not associated with the "vessel" tradition. Contemporary use of clay to include a variety of firing, glazing and alternative finishing techniques. Study of artists related to class studio problems, through slides, lectures, critiques, videos, field trips to museums and galleries. A materials fee is charged for this course. (Spring odd years)

### ART 3321

**Painting II; Still Life Painting (0-6)** Prerequisites: ART 2310 or permission of instructor. Designed to give students a thorough knowledge of the procedures in depicting form, volume, the illusion of space and depth, and the behavior of color, value, and texture under controlled studio lighting. Emphasis is placed on a strong composition, emotional impact, communication of ideas, creating a mood, and the congruity of technique. (Fall odd years)

### ART 3322

**Modern Art History (3-0)** Prerequisites: ART 1300 or permission of instructor. Survey covering pre-Modern to Contemporary Art: European and non-European artists, architects, and others of international importance who are typical of a multitude of art movements around the world.—and their artistic significance—as records of aesthetic expression of humankind. Image-based lectures, discussions, CD Rom's, videos and field trips to museums and galleries. (Fall odd years)

### ART 3323

**Non-European Art (3-0)** Prerequisites: ART 1300 or permission of instructor. See 3322. Creates a cultural bridge to better understanding of some ancient and emerging nations in the changing world. Includes art of Asia, Africa, Oceania, and the Americas. Also includes recent archaeological finds, contem-



porary trends and past histories that have already influenced the art of Western Civilization in image-based lectures, discussions, CD ROM's, videos and field trips to museum and galleries. (Fall even years)

**ART 3328**

**Advanced Photography (0-3)** Prerequisites: ART 2323 or consent of instructor. In-depth study of the finer points of creative photography. Emphasis on exposure controls and depth of field. Darkroom production of fine arts prints. Exploring digital and medium format photography. Studio photography, digital photography, and portfolio preparation for senior show. Lecture and lab 6 hours a week. A materials fee is charged for this course. (Spring, Fall as needed.)

**ART 3330**

**Computer Graphics Design (3-0)** Prerequisite: suggested ART 1310. Required for BFA, optional advanced art elective for BA or Art minor. A studio course designed to introduce languages and methods of using the computer to generate images. The course explores alternative image making and problem solving using Macintosh computer programs as applied to the visual arts. Illustrator, Photoshop, and other programs are used to generate images. The image as communication will be emphasized while introducing layout and design. A materials fee is charged for this course. (Fall, Spring)

**ART 3334**

**Desktop Publishing (3-0)** Prerequisite: ART 1310. A studio course designed to address the creation of print published materials. The course will emphasize developing layout and design skills for newspaper, direct-mail, magazine, brochure, web design, PDF, and book publishing. Adobe InDesign and Photoshop are used. A materials fee is charged for this course. (Spring)

**ART 3336**

**Special Topics in Graphic Design (3-0)** Prerequisites: ART 3330, or permission from instructor. A studio course designed to address two topics in graphic design. (1) Computer illustration - logos, fonts, and symbol systems. (2) Packaging - retail, grocery, and clothing packages. May be repeated for credit as topics change. A materials fee is charged for this course. (Fall, Spring)

**ART 3340**

**Painting III Advanced Painting (0-6)** Prerequisites: ART 2310 or permission of instructor. An advanced study of aesthetic principles, composition and color. Emphasis on conceptual development with more individual choice of pictorial interpretation. Course includes study techniques and images of famous and regional painters through slide/lectures, CD ROM's, videos and field trips to museums and galleries. (Fall)

**ART 3360**

**Secondary School Art (0-6)** Suggested prerequisite: ART 3370. Students will develop: insight into the appreciation of historical and contemporary art; develop skills in selective art media; become familiar with child development in art and with art terminology; and learn how to motivate, guide, evaluate and exhibit 5-12 grade students' art works. (Spring odd years, and as needed)

**ART 3370**

**Elementary School Art (0-6)** Prerequisite: suggested ART 1300. Students will develop: insight into the appreciation of historical and contemporary art; develop skills in selective art media; become familiar with child development in art and with art terminology; and learn how to motivate, guide, evaluate and exhibit EC - 6 grade students' art works. (Fall, and as needed)

**ART 3390**

**Gallery Practices (3-0)** Prerequisites: ART 1300 or permission of instructor. This course includes 70 clock hours of gallery

internship. Students will explore art careers, especially in gallery and museum settings, as well as, familiarize students with professional display of their art work. Students will gain hands-on experience in curating art exhibits, hanging shows, labeling, lighting, hosting, and publicizing exhibits at McMurry University's Amy Graves Ryan Fine Art Gallery and area galleries and museums. This is to be taken sophomore or junior year. (Spring)

**ART 3391**

**Jewelry Design (0-6)** Prerequisite: suggested ART 2321. Optional advanced art elective for BFA, BA, and Art minors. Optional art concentration area for BFA. The design and construction of contemporary jewelry and study of historical designs and usage. Processes include fabrication and casting. Emphasis placed on originality and craftsmanship. (Spring)

**ART 4313**

**Clay and Glaze Calculation and Kilnbuilding (0-6)** Prerequisite: ART 1313. The students will learn to calculate glazes and clay bodies to achieve specific results. The students will develop a notebook and examples of raku, cone 05, cone 6, and cone 10 glazes and clay bodies. The student will become aware of the uses of the individual minerals that comprise a glaze, clay body and their function. The student will gain a more thorough understanding of the firing processes by firing bisque, raku, lowfire, cone 6, and cone kilns. A materials fee is charged for this course. (Spring odd years, and as needed)

**ART 4335**

**Painting IV Special Topics (3-0)** Prerequisites: ART 1310 and ART 2310 or permission of instructor. Suggested prerequisite is ART 3310 or ART 3320 (life drawing). Designed to give students a thorough knowledge of the procedures in depicting form, volume, the illusion of space and depth, and the behavior of color, value, and texture under controlled studio lighting, painting from a model and through painting on location. Emphasis is placed on a strong composition, emotional impact, communication of ideas, creating a mood, capturing a likeness, and the congruity of technique. Various painting media will be explored. This course may be repeated as topics change. (Fall, and as needed)

**ART 4390**

**Professional Practices/Internship (3-0)** Prerequisites: ART 3330, MMA 2310, senior standing, or permission of instructor. Required for BA and BFA art majors. This course includes 50 hours of an internship. Senior art students are prepared for a professional exhibition of his/her art work. It also prepares the student for job interviews, opening a private studio, applying to graduate school and entering professional competitions. The internship hours in this course provides opportunity for students to gain actual experience through on-the-job assignments in an art or graphics related concern or business. (Fall, and as needed)

**ART 4X95**

**Independent Studies (variable credit)** Prerequisite: permission of instructor. A study program arranged between an advanced student and the instructor to provide intensive study in a particular area of interest. The course includes a definition of goals appropriate for the advanced student, ways of attaining those goals, a schedule for frequent consultation and a means of measuring progress. A materials fee may be charged for this course. (By arrangement)

**ART 4X96\***

**Honors Tutorial (Variable Credit)**

An in-depth study, which may be related to an upper-level art course, taken with concurrent enrollment, or after successful completion of the course. The Honors Tutorial may be repeated

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for credit, not to exceed 4 hours of combined credit. Honors students should complete the Honors Tutorial the semester prior to the Honors Thesis, ART 4X97.

### ART 4X97\*

#### Honors Thesis (Variable Credit)

This course represents the senior project for honors students in the Art Department. Following completion of the Honors Tutorial, the student will design, execute and present orally, and in writing, a research project which explores an issue or concept in Art.

### ART XX99

**Special Topics (variable credit)** Prerequisite: permission of instructor. A course of study offered occasionally to groups of students to broaden departmental curriculum, to meet student demand, to observe special departmental curriculum, or to observe special events. May be repeated for credit when topics vary. A materials fee may be charged for this course. (As needed)

## BUSINESS ADMINISTRATION

### BA 1310

**Contemporary Business (3-0)** Prerequisite: None. Survey of the functional areas of business with special emphasis on the role of business in society, business careers and techniques of analysis used in business. (Fall, Spring) (TCCN BUSI 1301)

### BA 3350

**Entrepreneurship (3-0)** Prerequisite: None. The planning and operation of a small business enterprise. It will include site location, financial aspects of starting a business, sources of information and aid for the entrepreneur, common management problems, and practical methods of controlling expenses and building volume. (Spring)

### BA 3370

**Business Statistics (3-0)** Prerequisite: MATH 1311. Descriptive statistical measures, probability distributions, sampling, inference, chi-square and non-parametric methods, regression and correlation, and time series and analysis. (Spring, Fall)

### BA 3371

**Decision Sciences for Business (3-0)** Prerequisite: B A 3370. Survey and analysis of major mathematics and statistical techniques useful in modern business. (Spring)

### BA 4370

**Business Law (3-0)** Prerequisites: Junior or Senior standing or consent of the instructor. Historical development of law, court procedure, torts, contracts, ethics, business entities, Uniform Commercial Code and legal environment of business. This course is recommended for pre-law students. (Fall)

### BA 4380

**Commercial Law (3-0)** Prerequisites: Junior or Senior standing or consent of the instructor. It is recommended that students have taken BA 4370, *Business Law*, prior to taking BA 4380. Business entities, commercial paper, Uniform Commercial Code, administrative law, property and agency. This course is recommended for students in the Accounting concentration and for pre-law students. (Spring)

### BA 4385

**Ethics in Business and Society (3-0)** Prerequisites: Junior or Senior standing or consent of the instructor. To provide students with an opportunity to explore the issues of integrity, moral reasoning, independence and objectivity as they apply to legal and social issues that impact strategic decision making for institutions and organizations. (Fall, Spring)

### BA 4390

**Strategic Management: Strategy and Decision Making (3-0)** Prerequisites: MGMT 3310, MKTG 3370, ACCT 2310, ECON 2320, FIN 3340, B A 3370, and senior standing, or consent of the instructor. This course integrates the functional areas of business from the management point of view. Emphasis on the role of management in formulation of strategy, long range planning and decision making. This is the capstone course for Business. Enrollment is limited with preference given to graduating seniors. (Fall, Spring)

### BA 4X95

**Independent Studies (variable credit)** Prerequisites: Senior standing and consent of the Dean. A study program arranged between an advanced student and an instructor to provide intensive study in a particular area of interest. The course includes a definition of goals appropriate for the advanced student, ways of attaining those goals, a schedule for frequent consultation, and means of measuring progress. (By arrangement)

### BA XX99

**Special Topics (variable credit)** Prerequisite: Permission of instructor. A course of study offered occasionally to groups of students to broaden departmental curriculum, to meet student demand, or to observe special events. May be repeated for credit when topics vary. (By arrangement)

## BILINGUAL EDUCATION

### BIED 3301

**Advanced Conversation and Phonetics (3-0)** Prerequisites: SPAN 2320. Designed to strengthen speaking skills and oral comprehension. Oral practice is based in part on dramatic readings in class. (Spring odd years) (Required for Bilingual Education Generalist EC-6)

### BIED 3331

**Grammar and Composition (3-0)** Prerequisites: SPAN 2320 An in-depth study of the grammatical structure of Spanish with emphasis on idiomatic expressions, syntax and the development of an individual literary style. (Fall) (Required for Bilingual Education Generalist EC-6)

### BIED 3336

**Hispanic Culture and Civilization (3-0)** Prerequisite: SPAN 2320, SPAN 3331 or departmental approval. A study of Iberian and Spanish American patterns of civilization. Key aspects of Hispanic history, economy, art, political life, and cultural topography are studied. (Fall odd years)

### BIED 3375

**Mexico (3-0)** Prerequisites: 6 hours of lower level history. The history of Mexico from prehistoric times to the present; political, economic, social, and intellectual development; United States-Mexican relations. (Also cross-listed as HIST 3375) (Fall odd years) (Required for Bilingual Education Generalist EC-6)

### BIED 4322

**Spanish Linguistics (3-0)** Prerequisites: SPAN 2320, SPAN 3331 or departmental approval. A study of the contrastive linguistics of Spanish and English. Acquaints students with the basics of descriptive, applied, psycho- and sociolinguistics. (Spring odd years) (Required for Bilingual Education Generalist EC-6)

**BIED 4335**

**Spanish for Teachers and Majors (3-0)** Prerequisites: All Elementary, Intermediate and advanced courses or departmental approval. A practicum in language mastery. Prospective teachers learn theories, principles, strategies, techniques, and practical applications on how language is introduced and taught in meaningful contexts, it will assist the future teacher to develop a personal philosophy of language learning and teaching, suggestions for planning, teaching and assessment. Prospective teachers must demonstrate preparedness to pass state required tests for certification. This is the capstone course for Spanish. (Spring even years)

**BIED 4X95**

**Independent Studies (3-0)** Prerequisites: Permission of instructor. A study program arranged between an advanced student and an instructor to provide intensive study in a particular area of interest. The course includes a definition of goals appropriate for the advanced student, ways of attaining those goals, a schedule for frequent consultation, and means of measuring progress.

**BIED XX99**

**Special Topics (3-0)** Prerequisites: Permission of instructor. A study offered occasionally to groups of students to broaden departmental curriculum, to meet student demand, or to observe special events. May be repeated for credit when topics vary.

**BIOMEDICAL SCIENCE****BIMS 1101**

**Biology of Unicellular Organisms Lab (0-3).** Prerequisites: Successful completion of (or concurrent enrollment in) BIOL 1301, or permission of instructor. This is a required course for the B.S. in Biomedical Science major. An introduction to the methods used for studying unicellular organisms. Open-ended investigative projects culminate in faculty review of poster presentations. (Fall)

**BIMS 1300**

**Introduction to Scientific Research (3-0).** Prerequisites: None. This is a required course for the B.S. in Biomedical Science major. This course satisfies the general education requirement for Critical Reasoning. An introduction to the process of observation, thought, analysis, and reasoning central to science and research. Various approaches to qualitative and quantitative scientific investigation and ethical decisions in science are emphasized. These elements are illustrated in a student-designed course project. (Spring) (TCCN BIOL 1306)

**BIMS 3410**

**Microbiology (3-3)** Prerequisites: BIOL 1301, CHEM 1410 and CHEM 1420. This is a required course for majors in Biomedical Science. An introduction to the morphology, physiology, genetics, growth, pathogenicity, and control of microbes, and also immunological interactions between microbes and man. (Fall, Spring)

**BIMS 3430**

**Human Physiology (3-3)** Prerequisites: (BIOL 1301 and either BIOL 3410 or BIOL 3460) or (BIOL 1403 and BIOL 3440) or (BIOL 2401 and BIOL 2402). Designed for majors and minors. A study of the function and chemistry of organ systems of the human body using experimental approaches and computer simulations. (Spring)

**BIMS 4000**

**Junior Exam (0-0).** Prerequisite: Junior standing. This is a required course for the B.S. in Biomedical Science major. BIMS majors are required to take basic knowledge tests over foundational principles of biology to qualify for advanced

projects upon entrance into BIMS 4201 BIMS Senior Capstone. Tests may be taken repeatedly until satisfactory scores are achieved. This course is pass/fail. (Fall, Spring)

**BIMS 4120**

**Molecular and Cellular Biology Laboratory (0-3).** Prerequisites: Completion of (or concurrent enrollment in) BIOL 4320, or permission of instructor. This is a required course for the B.S. in Biomedical Science and Biochemistry majors. An introduction to basic laboratory techniques used for the study of cells, organelles, and molecules. Methods will be taught through experimental approaches, culminating in the reporting of the findings in a scientific format. (Fall)

**BIMS 4201**

**BIMS Capstone Experience (1-3).** Prerequisites: Senior standing and completion of BIMS 4250 and BIMS 4000, or approval of the dean. This course is required for the B.S. in Biomedical Science major. Participation in a capstone experience in the biological sciences, which integrates knowledge from course work and culminates in observations, data handling, and analysis to be used for completing a writing assignment in BIOL 4101. Capstone experiences may consist of original research, experience obtained in internships, summer research experiences, or other appropriate activities. (Fall, Spring)

**BIMS 4320**

**Molecular and Cellular Biology (3-0)** Prerequisites: CHEM 3410, and CHEM 3420. This is a required course for the B.S. in Biomedical Science and Biochemistry majors. A study of biology at the cellular and molecular level. Topics drawn from the anatomy and physiology of eukaryotic cells, gene expression and regulation, energy transformation, organelle function and biosynthesis, growth and division, intracellular transport, cell signaling, and the development of tissues and multicellular organisms. (Fall)

**BIMS 4X91**

**Advanced Topics in Microbiology and Public Health (3-0/3)** Prerequisites: BIOL 3410, and other courses as appropriate to the topic offered. An elective course for the Biomedical Science major designed to discuss and explore specialized topics in microbiology and/or public health with special attention to health and disease. Potential courses include Epidemiology, Medical Microbiology, immunology, Virology, Bacterial Physiology, Food Microbiology, and other specialized courses. (As needed)

**BIMS 4X92**

**Advanced Topics in Molecular Biology and Genetics (3-0/3)** Prerequisites: BIOL 3460, and other courses as appropriate to the topic offered. An elective course for the Biomedical Science major designed to discuss and explore specialized topics in molecular biology and/or genetics with special attention to health and disease. Potential courses include Advanced Genetics, Genetic Engineering, Cell Signaling Mechanisms, Bioinformatics, Cancer Biology, and other specialized courses. (As needed)

**BIOLOGY****BIOL 1301**

**Biology of Unicellular Organisms (3-0)** Prerequisites: None. An introductory level course intended to familiarize students with the nature of cells and the diversity, heredity, physiology, ecology, and evolution of unicellular organisms. This course is required for the Biology, Biomedical Science, Biochemistry, and Life Science majors. Biomedical Sciences majors are required to take BIMS 1101 Biology of Unicellular Organisms Laboratory. (Fall, Spring) (TCCN BIOL 1307)

**BIOL 1401**

**Principles of Biology (3-3)** Prerequisites: None. Designed as a course for general education credit in Natural Science for

## Course Descriptions - Undergraduate

non-majors. An introduction to the fundamental principles and processes of life, including the diversity of life, the nature of cells, the principles of heredity basic organismal physiology evolution, and the interdependence of life. (Fall, Spring) (TCCN BIOL 1408)

### BIOL 1402

**Biology of Plants (3-3)** Prerequisites: None. Designed for Biology and Life Science majors, and Biology minor. A beginning course in botany emphasizing plant cells and tissues, development, genetics, physiology, and evolution. The life cycles and major phyla of algae and green plants discussed in the ecological and phylogenetic framework. (Fall) (TCCN BIOL 1411)

### BIOL 1403

**Biology of Animals (3-3)** Prerequisites: None. Designed for Biology and Life Science majors, and Biology minor. A beginning course in zoology emphasizing animal cells and tissues, development, genetics, physiology, and evolution. The major phyla of animals are used as examples. (Spring) (TCCN BIOL 1413)

### BIOL 2110

**Environmental Seminar (1-0)**. Prerequisites: BIOL 1402 and BIOL 1403. This is a required course for the Biology major. A course designed to discuss and explore current & classical issues in environmental biology. Topics covered may include the biodiversity crisis, the ethics of habitat management & protection, global warming, conservation biology & wildlife management, pollution and sustainable resource management. (Spring)

### BIOL 2401

**Anatomy and Physiology I (3-3)** Prerequisites: None. Credit will not count toward the Biology or Biomedical Science majors, but this course is required for degrees in Nursing, Exercise Science & Human Performance, and Life Sciences, and for students pursuing athletic trainer certification. A study of cells, tissues, and cellular processes of the human body, as well as the structure and function of the integumentary, skeletal, muscular, nervous, and endocrine systems. Laboratory emphasis on skeletal and muscular systems. (Fall) (TCCN BIOL 2401)

### BIOL 2402

**Anatomy and Physiology II (3-3)** Prerequisites: BIOL 2401 or permission of the instructor. Credit will not count toward the Biology or Biomedical Science majors. A study of the structure and function of the digestive, respiratory, cardiovascular, lymphatic, urinary, and reproductive systems of the human body. Laboratory emphasis on physiology of organ systems. (Spring) (TCCN BIOL 2402)

### BIOL 3403

**Foundations of Microbiology (3-3)** Prerequisites: One semester of college science or permission of the instructor. Intended for students in allied health, teaching fields, and other non-majors. This course will not count for credit toward a biology major or minor or a biomedical science major. It will satisfy requirements for the Life Sciences major. A survey of microorganisms with emphasis on their roles in human health and disease including taxonomy, modes of transmission, pathogenesis, and chemotherapy. Laboratory topics focus on sampling, safe handling, microscopic examination, culturing, sensitivity testing, and methods for controlling microbial contamination. (Spring, Summer)

### BIOL 3440

**Comparative Anatomy (3-3)**. Prerequisite: BIOL 1403. Designed for Biology and Life Science majors, and Biology minors. A comparative study of the anatomy and phylogeny of the vertebrate organ systems. (Fall)

### BIOL 3460

**Genetics (3-3)** Prerequisites: BIOL 1301, or BIOL 1402 or BIOL 1403, and 8 hours of Chemistry. Designed for Biology, Biomedical Science, Life Science majors, and Biology minors. A study of genes and their action. This course incorporates classical Mendelian, population, and molecular genetics. (Fall)

### BIOL 4101

**Biological Literature (1-0)**. Prerequisites: Completion of, or concurrent enrollment in, BIOL 4201 or BIMS 4201. An introduction to current research and literature in the biological sciences, with a focus on the skills required to read and write scientific literature. Topics will include the various levels and styles of scientific writing, ethical conduct in science communication, and the methods and skills required for preparing effective oral, poster, and paper presentations of a scientific nature. (Fall, Spring)

### BIOL 4201

**BIOL Capstone Experience (1-3)**. Prerequisites: Senior standing and completion of the major requirements for the biology degree, or approval of the dean. This course is required for the B.S. in Biology and B.S. in Life Science majors. Participation in a capstone experience in the biological sciences, which integrates knowledge from course work and culminates in observations, data, and analysis to be used for completing a writing assignment in BIOL 4101. Capstone experiences may consist of original research, internships, summer research experiences, science pedagogy research, or other appropriate activities. (Fall, Spring)

### BIOL 4340

**Biology Field Studies** Prerequisites: 7 hours of BIOL and permission of instructor. Designed for Biology and Life Science majors, and Biology minors. A study of the flora, fauna, landforms, and ecology of selected sites primarily in the Southwest and Mexico. Classroom studies and an extended field trip offers opportunities to view plants and wildlife in natural settings. (As needed)

### BIOL 4360

**Evolution (3-0)**. Prerequisite: BIOL 3460. This course is designed to introduce and explore one of the fundamental principles in biology - evolution. Topics deal with the genesis of evolutionary thought, the processes by which natural populations evolve, and the methods that have been used to investigate evolutionary hypotheses. (Fall odd years)

### BIOL 4430

**Ecology (3-3)** Prerequisites: BIOL 1301, 1402, 1403. Designed for Biology and Life Science majors, and Biology minors. Qualitative and quantitative studies of the interrelationships existing between plants and animals and their environments. Laboratory work involves field collections, data analyses, and studies of plants and animals in different ecosystems. Field trip required. (Spring)

### BIOL 4450

**Advanced Botany (3-3)** Prerequisite: BIOL 1402. Designed for Biology and Life Science majors, and Biology minors. A study of major botanical fields with an emphasis on flowering plants. Topics included are plant systematics, phylogenetic methods, origin, diversification, and diversity of vascular plants, evolution, and economic botany. This course is taught as a combination lecture and laboratory course. (Spring odd years)

### BIOL 4X91

**Advanced Topics in Botany (3-0/3)**. Prerequisite: BIOL 1402 or BIOL 1301. This course is designed to discuss and explore specialized topics in botany. Potential courses include Medical Botany, Plant Anatomy and Physiology, Paleobotany, Economic Botany, and other specialized courses. (As needed)

**BIOL 4X92**

**Advanced Topics in Zoology (3-0/3).** Prerequisite: BIOL 1403. This course is designed to discuss and explore specialized topics in zoology. Potential courses include entomology, invertebrate biology, mammalogy, ornithology, and other specialized courses. (As needed)

**BIOL 4X95**

**Independent Studies.** Prerequisite: Permission of instructor. Designed for majors. A study program or research arranged between an advanced student and an instructor to provide intensive study or investigation in a particular area of interest. The course includes a definition of goals appropriate for the student, ways of attaining those goals, a schedule of frequent consultation, and means of measuring progress. (As needed)

**BIOL 4X96\***

**Biology Honors Tutorial.** Prerequisite: Permission of instructor. Designed for Biology Honors participants. This course provides opportunities for investigations related to an upper-level biology course (with current enrollment) or as a separate independent study. This course may be repeated. (As needed)

**BIOL 4X97\***

**Biology Honors Research.** Prerequisite: Permission of instructor. Designed for Biology Honors participants. This course provides an opportunity to pursue a research topic under the direction of a biology faculty member, resulting in a final presentation to an appropriate audience. (as needed)

**BIOL XX99**

**Special Topics.** Prerequisite: Permission of instructor. Designed for majors. A course of study offered occasionally to groups of students to broaden department curriculum, to meet student demand, or to observe special events. May be repeated for credit when topics vary. (As needed)

**CHEMISTRY****CHEM 1400**

**Chemistry in Society (3-3)** Prerequisites: None. Designed as a course for McMurry general education credit in Natural Science for students who do not major or minor in science or engineering. Students who have not had chemistry courses prior to enrollment in the University should take this course before taking any other chemistry course. A general introduction to concepts that are fundamental to chemistry, such as atomic structure, chemical bonding, acids and bases, oxidation and reduction, and nuclear chemistry. Topics studied may vary depending on the focus of the course (forensic chemistry, environmental chemistry, etc.) (Spring) (TCCN CHEM 1405)

**CHEM 1405**

**Survey of General and Organic Chemistry (3-3)**  
Prerequisites: Concurrent enrollment in or successful completion of MATH 1311 or higher. A full year of high school chemistry with laboratory or CHEM 1400 is strongly recommended. Designed for students whose intended career is in one of the allied health fields. This course, or CHEM 1410, is required for Nursing and Life Science majors. This course does not satisfy the requirements for other science majors or minors. Optional for general education requirement in Natural Science. A study of the fundamental principles of chemistry, including atomic structure, molecular bonding, chemical reactions and stoichiometry, states of matter, solution chemistry (including acids, bases, and buffers) and an introduction to the structure of organic compounds. Topics emphasize biological chemistry. (Fall) (TCCN CHEM 1406)

**CHEM 1406**

**Survey of Organic and Biochemistry (3-3)** Prerequisite: CHEM 1405. A continuation of CHEM 1405. This course, or CHEM 1420, is required for Nursing and Life Science majors.

This course does not meet the requirements for other science majors or minors. A study of the structure and reactivity of organic functional groups and the biochemistry of proteins, carbohydrates, lipids and nucleic acids. (Spring) (TCCN CHEM 1408)

**CHEM 1410**

**General Chemistry I (3-3)** Prerequisites: Concurrent enrollment in, or successful completion of, MATH 1311 or higher required. Previous study of chemistry in high school or CHEM 1400 and concurrent enrollment in a math course higher than MATH 1311 is strongly recommended. Designed for students whose major or minor is in a field of natural science, mathematics, pre-professional health fields, or pre-engineering. Optional for general education requirement in Natural Science. A study of fundamental concepts, such as atomic and molecular structure, chemical bonding, periodic properties, chemical reactions, and intermolecular forces. Emphasis is placed on mathematical relationships and problem solving. (Fall) (TCCN CHEM 1411)

**CHEM 1420**

**General Chemistry II (3-3)** Prerequisite: CHEM 1410. A continuation of CHEM 1410. Topics include, but are not limited to, thermodynamics, equilibria, chemical kinetics, and electrochemistry. (Spring) (TCCN CHEM 1412)

**CHEM 2430**

**Quantitative Analysis (3-3)** Prerequisite: CHEM 1420. Chemistry and Biochemistry majors are strongly encouraged to take CHEM 2430 concurrently with CHEM 3420. The course is an introduction to the quantitative analysis of various materials. Emphasis is placed on sample acquisition, error analysis, and the basic quantitative methods of titrimetry, gravimetry and visible spectroscopy. Laboratory work includes the analysis of materials encountered in everyday life. (Spring) (TCCN CHEM 2401)

**CHEM 3350**

**Organic Structure Analysis (2-4)** Prerequisite: CHEM 3420. An advanced study of techniques used in structure determination. Topics include infrared, nuclear magnetic resonance and ultraviolet spectroscopy, mass spectrometry, and optical rotation. Laboratory work explores methods of separation and purification of organic compounds, as well as multistep synthesis and the systematic analysis of isolated products. Selected methods of computational chemistry are also examined. (Spring odd years)

**CHEM 3360**

**Physical Biochemistry (3-0)** Prerequisites: CHEM 3441, MATH 2322, and PHYS 1420 or PHYS 2520. Recommended for students with an interest in the health sciences. This course investigates the mathematical and physical descriptions and governing laws of biological systems. Three general areas include thermodynamics, kinetics and quantum mechanics. Topics usually include biochemical and physical equilibria, molecular transport, enzyme kinetics, molecular structure and spectroscopy, and statistical thermodynamics. Mathematical rigor and biological applications are emphasized. (Spring odd years)

**CHEM 3410**

**Organic Chemistry I (3-3)** Prerequisite: CHEM 1420. This course is the first semester of a two semester sequence focused on the study of carbon compounds. It emphasizes the study of organic molecule structures and their properties, nomenclature, stereochemistry, isomerism, functional groups, organic chemical reactions and mechanisms in organic molecule synthesis. Selected experiments aid in the comprehension of the mechanism of organic reactions and of the IR and NMR spectra of organic molecules. (Fall)

## Course Descriptions - Undergraduate

### CHEM 3420

**Organic Chemistry II (3-3)** Prerequisite: CHEM 3410. A continuation of CHEM 3410. Chemistry and Biochemistry majors are strongly encouraged to take CHEM 3420 concurrently with CHEM 2430. This course is focused on the study of aliphatic and aromatic organic chemistry and emphasizes conjugated and aromatic compounds, aldehydes and ketones, carboxylic acids and their derivatives, amines, and macro-molecules, such as proteins, lipids, carbohydrates, and nucleic acids. Selected topics are incorporated into experiments in the laboratory to aid in understanding the mechanisms of organic reactions, followed by IR and NMR spectroscopic analysis of the desired product. (Spring)

### CHEM 3431

**Physical Chemistry I (3-3)** Prerequisites: CHEM 2430, PHYS 1420 or 2520, MATH 2322, or permission of instructor and junior standing. The course is the first in a two semester sequence which explores the theoretical principles underlying chemical and physical transformations of matter. Emphasis is placed on the thermodynamics of chemical systems. The laboratory emphasizes the measurement of physical properties and chemical changes, record keeping, data analysis, and report writing. (Fall odd years)

### CHEM 3432

**Physical Chemistry II (3-3)** Prerequisites: CHEM 3431, MATH 3351. The course is a continuation of CHEM 3431, with emphasis on chemical kinetics and quantum mechanics. (Spring even years)

### CHEM 3440

**Environmental Chemistry (3-3)** Prerequisite: CHEM 1420. This course explores the chemistry of the Earth's atmospheric, hydrologic, and geologic systems. It includes a study of both naturally functioning environments and degraded environments. A variety of topics are investigated, including, but not limited to, atmospheric chemistry, photochemical smog, ozone depletion, greenhouse gases, aquatic chemistry, acid deposition, and hazardous or toxic materials. The laboratory component involves a class project in which a local natural area or urban setting is studied. Through the project, sampling methods are presented and a variety of air, water, or soil analyses are conducted. (Fall even years)

### CHEM 3441

**Biochemistry I (3-3)** Prerequisite: CHEM 3420. Recommended for students with an interest in health sciences. This course is the first in a two semester sequence which explores the molecules and chemical reactions of biological systems. Topics include amino acids, protein structure and function, enzyme kinetics, thermodynamics of biochemical systems, buffers, carbohydrates, and biochemical laboratory techniques. The laboratory teaches techniques unique to biochemistry and that relate to the lecture material. (Fall)

### CHEM 3442

**Biochemistry II (3-3)** Prerequisite: CHEM 3441. Recommended for students with an interest in health sciences. This course is the second in a two semester sequence which explores the molecules and chemical reactions of biological systems. Topics include metabolism, glycolysis and gluconeogenesis, the citric acid cycle, oxidative phosphorylation, fat metabolism, regulation of metabolism, amino acid chemistry, and immunology. The lab teaches techniques unique to biochemistry and that relate to the lecture material. (Spring)

### CHEM 3480

**Foundational Inorganic Chemistry (3-3)** Prerequisite: CHEM 1420. This course is an introduction to the chemistry of inorganic compounds. The focus is on the application of the fundamental chemical concepts (such as atomic and molecular structure, chemical bonding, and reaction types) to transition

metals and main group elements. Topics may include nuclear chemistry, electrochemistry, crystal field theory, solid state structures, descriptive chemistry of the elements, and bioinorganic chemistry. The laboratory work emphasizes the synthesis of a variety of inorganic compounds and their characterization by modern experimental methods. (Fall even years)

### CHEM 4101

**Literature Seminar (1-0)** Prerequisite: Junior or senior standing. This course is designed to develop written and oral communication skills. Students select a current topic in the field of chemistry, conduct a literature search, submit a paper written in scientific review format, and give an oral presentation to their peers. Work is carried out under the guidance of a faculty member. This is the capstone course for Chemistry and Biochemistry. (Spring)

### CHEM 4440

**Instrumental Methods of Analysis (3-3)** Prerequisite: CHEM 2430. The course is a survey of the instruments and associated methods used in chemical analysis. The theory and application of chromatographic, spectroscopic, and electroanalytical methods are examined. Laboratory work provides an opportunity to gain familiarity in the use of several instruments. (Fall odd years)

### CHEM 4X20

**Introduction to Research (variable credit)** Prerequisites: CHEM 1420 and consent of the instructor. A laboratory project is selected by the student in consultation with a faculty member who will direct the research. Students will submit a paper incorporating their research work, written in the format of published journal articles. The course may be repeated for credit to continue the same research project or to start a new one. (By arrangement)

### CHEM 4X88

**Internship (variable credit)** Prerequisites: Junior or Senior standing, and permission of instructor. A pre-approved internship is an undergraduate educational program through which a student earns academic credit for new workplace experiences that support the educational goals of the student's academic discipline. Employers work with the Department of Chemistry and Biochemistry to offer level-appropriate jobs that provide a continuous progression of learning for the student. The syllabus for the course will include a definition of goals and methods for measuring student progress. Credit may be granted for up to 3 credit hours in one semester. (As needed)

### CHEM 4X95

**Independent Studies (variable credit)** Prerequisite: Permission of instructor. A study program arranged between a student and an instructor to provide intensive study in a particular area of interest. The course includes a definition of goals appropriate for the advanced student, methods of attaining these goals, a schedule for frequent consultation, and a means of measuring progress. (By arrangement)

### CHEM 4X96\*

**Honors Tutorial (variable credit)** Prerequisite: Permission of instructor. Designed for Chemistry or Biochemistry Honors participants. This course provides opportunities for investigations related to an approved upper level course (with concurrent enrollment) or as a separate independent study. This course may be repeated. (As needed)

### CHEM 4X97\*

**Honors Research (variable credit)** Prerequisite: Permission of instructor. Designed for Chemistry and Biochemistry Honors participants. Students pursue a research topic under the direction of a departmental faculty member, resulting in a final paper and oral presentation to an appropriate audience. (As needed)

## CHEM 4X99

**Special Topics (variable credit)** Prerequisite: Permission of instructor. A course of study offered occasionally to groups of students to broaden the departmental curriculum, to meet student demand, or to observe special events. May be repeated for credit when topics vary. (By arrangement)

## CURRICULUM &amp; INSTRUCTION

## CI 2110

**Introduction to Education (1-0)** Prerequisites: ENG 1310, 1320, COMM 1310, MATH 1311 or higher, and 12 hours in the content field. This course provides an orientation to education as a profession, the challenge of teaching, the Texas Code of Ethics and State requirements for teacher certification. In-school observation is required. This course is required for admission to the Teacher Education Program. (Fall, Spring, May)

## CI 3301

**Theories of Learning (3-0)** Prerequisites: Admission to the Teacher Education Program and junior standing. Emphasis will be placed on the behavioral and cognitive theories of human learning and their implications for the classroom. Other topics include self concept, learning styles, motivation, and the influence of culture on learning. (Fall, Spring, Summer) (Required for teacher certification)

## CI 3302

**The Inclusive Classroom (3-0)** Prerequisites: Admission to the Teacher Education Program and junior standing. This course will prepare students to function in public schools that serve our diverse student populations. Students will examine rights and responsibilities of teachers, students, and administrators, cultural diversity, and methods of teaching special populations. (Fall, Spring, Summer) (Required for teacher certification)

## CI 4160

**Classroom Observations and Reflections** Prerequisites: Admission to Teacher Ed Program and FasTrack program. Available only to post-baccalaureate students. This course involves the student in observation and reflection of actual teaching episodes, utilizing the Texas Beginning Educators Support System (TxBESS). (May)

## CI 4198

**Student Teaching Seminar (1-0)** Prerequisites: Senior or post-baccalaureate status and admission to student teaching. This course includes the development, implementation, analysis, and evaluation of a Teacher Work Sample. Certification issues and challenges related to the student teaching experience will be addressed. Assignments will be submitted online. (Fall, Spring)

## CI 4305

**Student Teaching in the ESL or BIED Classroom (3-0)** Prerequisites: Senior or post-baccalaureate status and admission to student teaching. Co-requisite: Concurrent enrollment in C I 4198. Involves a six-week assignment in an ESL or bilingual classroom with joint supervision by public school and university personnel. (Fall, Spring)

## CI 4308

**Student Teaching EC-6 (3-0)** Prerequisites: Senior or post-baccalaureate status and admission to student teaching. Co-requisite: Concurrent enrollment in C I 4198. Involves a six-week assignment in an elementary school classroom with joint supervision by the public school and university personnel. (Fall, Spring)

## CI 4309

**Student Teaching Grades 8-12 (3-0)** Prerequisites: Senior or post-baccalaureate status and admission to student teaching. Co-requisite: Concurrent enrollment in C I 4198. (This is

one half of the student teaching requirement for those seeking all-level certification in art, music or physical education). Involves a six-week assignment in a secondary school with joint supervision by the public school and university personnel. (Fall, Spring)

## CI 4310

**Student Teaching Grades 4-8 (3-0)** Prerequisites Senior or post-baccalaureate status and admission to student teaching. Co-requisite: Concurrent enrollment in C I 4198. (This is one half of the student teaching requirement for those seeking all-level certification in art, music or physical education.) Involves a six-week assignment in a public school in grades 4-8 with joint supervision by the public school and university personnel. This course is pass/fail. (Fall, Spring)

## CI 4388

**Teaching Internship (3-0)** Prerequisites: Post baccalaureate status or approval of Curriculum and Instruction Department, and fulfillment of all requirements for internships. Participant will be employed as teacher-of-record in an accredited Texas school district. The student will be supervised jointly by school district and university personnel. Two consecutive semesters of enrollment are required to meet Texas teacher certification criteria. (Fall, Spring)

## CI 4601

**Student Teaching for Grades EC-Grade 6 (4-0)** Prerequisites: Senior or post-baccalaureate status and admission to student teaching. Co-requisite: Concurrent enrollment in C I 4198. Involves a full-day assignment in a school with joint supervision by public school and university personnel. (Fall, Spring)

## CI 4602

**Student Teaching for Grades 8-12 (4-0)** Prerequisites: Senior or post-baccalaureate status and admission to student teaching. Co-requisite: Concurrent enrollment in C I 4198. Involves a full-day assignment in a school with joint supervision by public school and university personnel. (Fall, Spring)

## CI 4603

**Student Teaching for Grades 4-8 (4-0)** Prerequisites: Senior or post-baccalaureate status and admission to student teaching. Co-requisite: Concurrent enrollment in C I 4198. Involves a full day assignment in a school with joint supervision by public school and university personnel. (Fall, Spring)

## CI 4320

**Methods and Management in the Elementary School (3-0)** Prerequisites: C I 3301, C I 3302, senior or post-baccalaureate status, and student must be in good standing in the Teacher Education Program. Co-requisite: Concurrent enrollment in C I 4321 and C I 4121. To be taken the semester before student teaching or internship. This course will focus on planning for classroom organization in elementary grades, models of classroom management and discipline, methods for ensuring effective communications with parents and other school personnel, and strategies for ongoing professional development. (Fall, Spring) (Required for EC-6 Certification)

## CI 4321

**Planning, Curriculum, and Assessment in the Elementary School (3-0)** Prerequisites: C I 3301, C I 3302, senior or post-baccalaureate status, and student must be in good standing in the Teacher Education Program. Co-requisite: Concurrent enrollment in C I 4320 and C I 4121. To be taken the semester before student teaching or internship. This course will emphasize development of planning skills, such as creating goals, objectives, lesson plans, and modifying them for special populations in elementary schools; elementary curricula and their organization; methods of teaching ; planning lessons that stress higher order thinking skills for elementary students; and the creation and evaluation of assessment instruments. (Fall, Spring) (Required for EC-6 certification)

## Course Descriptions - Undergraduate

### CI 4121

**Professional Development Internship EC-6 (1-0)** Prerequisites: CI 3301, CI 3302, senior or post-baccalaureate status, and student must be in good standing in the Teacher Education Program, Co-requisite: Concurrent enrollment in CI 4320 and CI 4321. This is a field-based course that is required by the Texas Education Agency and requires 45 hours of teaching experiences in a public school assignment. (Fall, Spring). (Required for EC-6 certification)

### CI 4322

**Methods and Management in the Middle School (3-0)** Prerequisites: C I 3301, C I 3302, senior or post-baccalaureate status, and student must be in good standing in the Teacher Education Program. Corequisites: Concurrent enrollment in C I 4323 and 4123. To be taken the semester before student teaching or internship. Further development of and practice with methods of instruction, development of higher order thinking skills for students, planning for classroom organization, and models of classroom management and discipline for middle school grades will be presented. (Fall, Spring) (Required for 4-8 certification)

### CI 4323

**Planning, Curriculum and Assessment in Middle School (3-0)** Prerequisites: C I 3301, C I 3302, senior or post-baccalaureate status, and student must be in good standing in the Teacher Education Program. Corequisites: Concurrent enrollment in C I 4322 and 4123. To be taken the semester before student teaching or internship. Development of planning skills, such as creating goals, objectives, lesson plans, and modifying them for special populations in grades 4-8; development of an understanding of the curricula and their organization in middle school grades; an introduction to methods of teaching; and the development of skills to create and evaluate assessments. (Fall, Spring) (Required for 4-8 certification)

### CI 4123

**Professional Development Internship 4-8 (1-0)** Prerequisites: CI 3301, CI 3302, senior or post baccalaureate status, and student must be in good standing in the Teacher Education Program. Co-requisites: Concurrent enrollment in CI 4322 and CI 4323. This is a field-based course that is required by the Texas Education Agency and requires 45 hours of teaching experiences in a public school assignment. (Fall, Spring). (Required for 4-8 certification)

### CI 4324

**Methods and Management in the Secondary School (3-0)** Prerequisites: C I 3301, C I 3302, senior or post-baccalaureate status, and student must be in good standing in the Teacher Education Program. Co-requisites: Concurrent enrollment in C I 4325 and 4125. To be taken the semester before student teaching or internship. Further development of and practice with methods of instruction, development of higher order thinking skills for students, planning for class room organization, and models of classroom management and discipline for secondary grades will be presented. (Fall, Spring) (Required for 8-12 certification)

### CI 4325

**Planning, Curriculum, and Assessment in the Secondary School (3-0)** Prerequisites: C I 3301, C I 3302, senior or post-baccalaureate status, and student must be in good standing in the Teacher Education Program. Co-requisites: Concurrent enrollment in C I 4324 and 4125. To be taken the semester before student teaching or internship. Development of planning skills, such as creating goals, objectives, lesson plans, and modifying them for special populations in grades 8-12; development of an understanding of curricula and their organization in secondary grades; an introduction to methods of teaching; and development of skills to create and evaluate tests. (Fall, Spring) (Required for 8-12 certification)

### CI 4125

**Professional Development Internship 8-12 (1-0)** Prerequisites: CI 3301, CI 3302, senior or post-baccalaureate status, and student must be in good standing in the Teacher Education Program. Co-requisites: Concurrent enrollment in CI 4324 and CI 4325. This is a field-based course that is required by the Texas Education Agency and requires 45 hours of teaching experience in a public school assignment. (Fall, Spring). (Required for 8-12 certification)

### CI 4350

**Methods and Management in the Elementary School (3-0)** Available only to post-baccalaureate students. Prerequisites: C I 3301, C I 3302, and student must be in good standing in the Teacher Education Program. Co-requisite: Concurrent enrollment in C I 4351. To be taken the semester before student teaching or internship. This course will focus on planning for classroom organization in the elementary school, models of classroom management and discipline, methods for ensuring effective communications with parents and other school personnel, and strategies for ongoing professional development. offered in an on-line and face to face format. (Summer) (Required for EC-6 Certification)

### CI 4351

**Planning, Curriculum, and Assessment in Elementary Schools (3-0)** Available only to post baccalaureate students, Prerequisites: C I 3301, C I 3302, and student must be in good standing in the Teacher Education Program. Co-requisite: Concurrent enrollment in C I 4350. To be taken the semester before student teaching or internship. This course will emphasize development of planning skills, such as creating goals, objectives, lesson plans, and modifying them for special populations in elementary schools; elementary curricula and their organization; methods of teaching ; planning lessons that stress higher order thinking skills for elementary students; and the creation and evaluation of assessment instruments. Offered in an on-line and face to face format. (Summer) (Required for EC-6 certification)

### CI 4352

**Methods and Management in the Middle School (3-0)** Available only to post baccalaureate students. Prerequisites: C I 3301, C I 3302, and student must be in good standing in the Teacher Education Program. Co-requisite: Concurrent enrollment in C I 4353. To be taken the semester before student teaching or internship. Further development of and practice with methods of instruction, development of higher order thinking skills for students, planning for classroom organization, and models of classroom management and discipline for middle school grades will be presented. (Summer) (Required for 4-8 certification)

### CI 4353

**Planning, Curriculum and Assessment in Middle School (3-0)** Available only to post baccalaureate students. Prerequisites: C I 3301, C I 3302, and student must be in good standing in the Teacher Education Program. Co-requisite: Concurrent enrollment C I 4352. To be taken before student teaching. Development of planning skills, such as creating goals, objectives, lesson plans, and modifying them for special populations in middle school grades; development of an understanding of the curricula and their organization in middle school grades; an introduction to methods of teaching; and the development of skills to create and evaluate assessments. (Summer) (Required for 4-8 certification)

### CI 4354

**Methods and Management in the Secondary School (3-0)** Available only to post baccalaureate students. Prerequisites: C I 3301, C I 3302, and student must be in good standing in the Teacher Education Program. Corequisite: Concurrent enrollment in C I 4355. To be taken the semester before student



teaching or internship. Further development of and practice with methods of instruction, development of higher order thinking skills for students, planning for classroom organization, and models of classroom management and discipline for secondary grades will be presented.

(Summer) (Required for 8-12 certification)

**CI 4355**

**Planning, Curriculum, and Assessment in Secondary Schools (3-0)** Available only to post baccalaureate students. Prerequisites: C I 3301, C I 3302, and student must be in good standing in the Teacher Education Program. Co-requisite: Concurrent enrollment in C I 4354. To be taken the semester before student teaching or internship. Development for planning skills, such as creating goals, objectives, lesson plans, and modifying them for special populations in secondary grades; development of an understanding of the curricula and their organization in secondary grades; an introduction to methods of teaching; and the development of skills to create and evaluate assessments. (Summer) (Required for 8-12 certification)

**CI 4X95**

**Independent Studies (variable credit)** Prerequisite: Permission of instructor. A study program arranged between an advanced student and an instructor to provide intensive study in a particular area of interest. The course includes a definition of goals appropriate for the advanced student, ways of attaining those goals, a schedule for frequent consultation, and means of measuring progress. (By arrangement)

**CI 4X96\***

**Honors Tutorial (either 3 or 4 hours credit)** Prerequisites: See requirements for honors for ECED majors. This course provides the honors student in Early Childhood Education with an opportunity for in-depth study of an education-related topic of interest. A proposal, outline of the study, and a reference list of major sources of information will be the work product. (By arrangement)

**CI 4X97\***

**Honors Thesis (either 3 or 4 hours credit)** Prerequisites: See requirements for honors for ECED majors. This course provides the honors student in Early Childhood Education with an opportunity to complete the study initiated in C I 4x96 with production of a thesis and presentation. (By arrangement)

**CI XX99**

**Special Topics (variable credit)** Prerequisite: Permission of instructor. A course of study offered occasionally to groups of students to broaden departmental curriculum, to meet student demand, or to observe special events. May be repeated for credit when topics vary. (By arrangement)

**COMPUTER INFORMATION SYSTEMS****CIS 1315**

**Computer Fluency (3-0)** Prerequisites: None. Introduction to the use of computer hardware and software in today's world with a heavy emphasis on the use of computing resources to collect and organize data and produce meaningful reporting products. Topics will include an overview of hardware, software, and the Internet; the use of spreadsheets, databases, and graphing tools to solve problems from a variety of scientific and non-scientific disciplines; and an introduction to designing and building Web sites. This course will be taught in a computer lab. This course is designed for non-computer science majors and does not count toward the requirements for a Computer Science major/minor or a Computer Information Systems concentration in Business. (Fall, Spring) (TCCN BCIS 1305)

**CIS 2350**

**Applications Programming: (3-0)** Prerequisite: CSC 1325 This course introduces students to writing application programs

for business and end users. Required for CIS program. Topics covered include an introduction to computer algorithms and problem solving, GUI design and implementation, and processing data in files. (Spring)

**CIS 3311**

**Database Management Systems (3-0)** Prerequisite: CIS 2350. This course is designed to give the student an introduction to database theory, especially the differences in database systems and how to use a relational data base. (Fall)

**CIS 3320**

**Internet Programming (3-0)** Prerequisite: CIS 2350. The course will cover learning to program applications for use on the internet. Students will be exposed to examples of current techniques including client side programming with advanced HTML and JavaScript and server side programming integrating scripting language/applications and databases. (Fall)

**CIS 3380**

**Management Information Systems (3-0)** Prerequisites: BA 1310, CIS 1315 or equivalent. This course provides a critical examination into how information systems are managed by organizations. Emphasis is on planning and decision making needs, systems development, and support for management levels. Topics include: management theory, systems options, software support, decision support systems and case studies in MIS tasking. (Fall, Spring)

**CIS 4350**

**Systems Analysis and Design (3-0)** Prerequisite: CIS 3311. This course presents object oriented techniques for analysis and design of new or improved information systems in the context of Systems Development Life Cycles. The course includes case studies and projects for automation in industry, including hardware and software selection and implementation considerations. (Fall)

**CIS 4X88**

**Internship (variable credit)** A pre-approved and supervised work experience designed to supplement academic training. Credit may be granted for one, two, or three semester hours. A student completing a dual concentration could be eligible for an internship in each concentration; however, a separate internship work experience would be required for each concentration. Interested students should discuss this course with the Director of Business Internships. (Spring, Fall)

**CIS 4X95**

**Independent Studies (variable credit)** Prerequisite: Senior standing and consent of the Dean. A study program arranged between an advanced student and an instructor to provide intensive study in a particular area of interest. The course includes a definition of goals appropriate for the advanced student, ways of attaining those goals, a schedule for frequent consultation, and means of measuring progress. (By arrangement)

**CIS XX99**

**Special Topics (variable credit)** Prerequisite: Permission of Instructor. A course study offered occasionally to groups of students to broaden departmental curriculum, to meet student demand, or to observe special events. May be repeated for credit when topics vary. (By arrangement)

**COMMUNICATIONS****COMM 1310**

**Principles of Communication (3-0)** Prerequisite: None. An introductory study and application of the basic principles of communication. This course is an option for the general education requirements in the oral communication competency. Emphasis is placed on the acquisition of communication skills that can be

## Course Descriptions - Undergraduate

applied in interpersonal, small group, and public speaking contexts. Specific concepts explored by this course include self concept and esteem, leadership, conflict management, diversity and intercultural communication issues, listening, nonverbal, communication anxieties, and ethical considerations as both the sender and receiver of messages. (Fall, Spring, Summer) (TCCN SPCH 1315)

### COMM 2330

**Business & Professional Communication (3-0)** Prerequisite: None. This course provides an introduction to organizational communication. This course is an option for the general education requirement in the Oral Communication competency. It covers theories related to new employee acculturation, small group communication, and conflict management. The course develops skills in common communication practices necessary for organizational success including interviewing and resumes, business correspondence, report writing, and presentational speaking. (Fall, Spring) (TCCN SPCH 1321)

### COMM 2350

**Argumentation & Advocacy (3-0)** Prerequisites: None. This course acquaints students with a variety of approaches to the study of argument by indicating the distinctions between "argument," "argumentation," "advocacy," "debate," and "persuasion." This course is an option for the General Education requirement in the Critical Reasoning Competency. It focuses both on theory and practice. Students will be exposed to the basic concepts and issues involved in the study of argument, as well as the methods for conducting and assessing argumentative practices. The course covers four broad topic areas: argumentative method, argumentative fallacies, the doctrine of presumption, and development of knowledge. (Fall)

## COMPUTER SCIENCE

### CSC 1305

**Computers in Education (3-0)** Prerequisites: None. Students in this project oriented course will explore contemporary information and communication tools to enhance both teaching and learning. Topics include creating multimedia, writing and publishing in on-line spaces, using collaborative tools, using office applications, and the construction of web-based instructional units. Students must have a wireless tablet or laptop. (Fall, Spring)

### CSC 1322

**Intro to Computer Science and Info Technology(3-0)** Prerequisites: None. An introductory course for all students. Required course for C SC major and IT major and minor. Topics covered include the development of algorithms, implementation of algorithms, solving software problems, program design, and error handling. Various software design techniques are implemented in a programming language. Students must have a wireless tablet or laptop. (Fall, Spring)

### CSC 1325

**Programming Fundamentals (3-0)** Prerequisites: None. Required course for both C SC and IT major and minor. Topics covered include computer algorithms and problem solving, computer hardware and software, and principles of computer algorithm construction. Various software design techniques are implemented in a programming language. Students must have a wireless tablet or laptop. (Fall, Spring) (TCCN COSC 1315)

### CSC 1340

**Advanced Programming Concepts (3-0)** Prerequisite: C SC 1325. Required course for C SC major and minor. A second course in programming for C SC students. Topics covered include advanced file operations, expanded pointer techniques, recursive techniques, multi-unit programs, unit testing,

basic algorithms for sorting and searching and basic data structures. Students must have a wireless tablet or laptop. (Fall, spring)

### CSC 2370

**Assembly Language and Computer Organization (3-0)** Prerequisite: C SC 1325. A required course in C SC major. Topics covered include an introduction to machine language and computer structure including data representation, conversion, hardware organization, addressing, macros, branching, I/O, subroutines and linkages. Students must have a wireless tablet or laptop. (Fall)

### CSC 3315

**Information and Communication Technologies (3-0)** Prerequisite: Junior standing. Students in this course will use a number of contemporary tools for information management, collaboration, media production, publication, networking and communication. Focus will be on creating, managing, and marketing a digital identity. Course readings will present a number of perspectives on how ICT is changing education, business, politics, and society. This is a technology and writing intensive course. Students must have a wireless tablet or laptop. (As needed)

### CSC 3330

**Fundamentals of Networking (3-0)** Prerequisites: C SC 1340, or CIS 2350. Required for C SC major, IT major and minor, and elective for C SC minor. Topics include methods of data transmission, hardware systems, error detection, network architecture and protocol definition. Application studies include satellite services, choosing voice data switches and LAN configuration. (Spring)

### CSC 3360

**Data Structures (3-0)** Prerequisites: C SC 1340 or CIS 2350. A required course for C SC major and minor. Topics covered include data representation and associated algorithms, arrays, stacks, queues, linked list structures, trees, graphs, sorting, searching, merging of files. (Fall)

### CSC 4310

**Organization of Programming Languages (3-0)** Prerequisite: C SC 3360. Required for C SC major and elective for C SC minors. The course covers the formal definition of programming languages including specification of syntax and semantics. Particular emphasis is placed on programming language design, evaluation, and implementation. (Fall)

### CSC 4340

**Operating Systems (3-0)** Prerequisites: C SC 2370 and C SC 3360. Required course for C SC major and elective for C SC minor. Major concepts of operating systems principles and their relationship to computer architecture are the central points of this course. Topics include file services, CPU scheduling, memory management, device scheduling, deadlocks, concurrency, protection, and distributed systems. (Spring)

### CSC 4360

**Software Engineering (3-0)** Prerequisite: CIS 4350. Required course for C SC and IT majors and elective for C SC minor. Continuation of CIS 4350 consisting of a team-based project to implement a software system designed in prerequisite course. This is the capstone course for Computer Science, and Info Technology. (Spring)

### CSC 4388

**Internship in Computer Science (0-9)** Prerequisite: Permission of instructor. Elective for C SC major. This course provides an opportunity for selected students to gain actual experience through on-the-job assignments in a computer facility located in the community. This is an experience-enriched course. (Fall, Spring as needed)

**CSC 4X95**

**Independent Studies (variable credit)** Prerequisites: advanced standing in a C SC major or minor, and permission of instructor. Upper level elective for C SC major and minor. This is an advanced study or research program arranged between supervising faculty and student which defines goals appropriate for the advanced student, ways of attaining those goals, a schedule for frequent consultation, and a means for measuring progress. (By arrangement)

**CSC 4X96\***

**Honors Tutorial (variable credit)** Prerequisite: Permission of instructor. Designed for Computer Science Honors participants. This course provides opportunities for investigations related to an approved upper level course (with concurrent enrollment) or as a separate independent study. This course may be repeated. (By arrangement)

**CSC 4X97\***

**Honors Research (variable credit)** Prerequisite: Permission of instructor. Designed for Computer Science Honors participants. Students pursue a research topic under the direction of a departmental faculty member, resulting in a final paper and oral presentation to an appropriate audience. (By arrangement)

**CSC XX99**

**Special Topics (level and credit are variable)** Prerequisite: Permission of instructor. Elective for C SC major and minor. Courses of this nature are infrequent or unique topics of study offered occasionally to groups of students to broaden the departmental curriculum, to meet student demand, or to observe special events. Courses of this type may be repeated for credit when topics vary. Students may be required to have a wireless tablet or laptop. (By arrangement)

**DEVELOPMENTAL STUDIES****DEVS 0110**

**Writing Mechanics (1-0)** This course covers the basic principles of grammatical structure and punctuation. Recommended for those needing or desiring more training in English grammar and usage. Laboratory time may be required. (Fall, Spring)

**DEVS 0300**

**Developmental Reading I (3-0)** Developmental Reading is designed to help students strengthen deficits in reading comprehension skills. Various techniques in developing vocabulary, determining main ideas, increasing reading speed, and other pertinent topics will be included in this course. (Fall as needed)

**DEVS 0302**

**Developmental Reading II (3-0)** Prerequisites: Appropriate score on reading placement test, or completion of DEVS 0300 with a grade of "C-" or better. Developmental Reading II is designed to prepare students to read college texts. Emphasis is placed on learning and applying study-reading strategies essential to success in academic courses. This course will include written and oral responses to reading materials in both individual, small group, and whole group environments. (Fall, spring as needed)

**DEVS 0310**

**Introduction To Composition (3-0)** The study of, and extensive practice in, process writing with emphasis on the basic elements of an effective essay, including work on mechanical skills. Recommended for those needing or desiring more training before taking ENG 1310. Laboratory time is required. (Fall, and Spring as needed)

**DEVS 0320**

**Introductory Algebra (3-0)** Curriculum includes elementary algebra including properties and operations of real numbers,

operations with algebraic expressions, factoring, solving linear equations, quadratic equations, and linear inequalities. Upon successful completion of DEVS 0320, the student will be enrolled in DEVS 0330. Laboratory time is required. (Fall, Spring)

**DEVS 0330**

**Intermediate Algebra (3-0)** Prerequisite: Successful completion of DEVS 0320 Introductory Algebra or demonstrated mastery of the concepts covered in DEVS 0320. Module 1 in the Modular College Algebra series includes a review of introductory algebra concepts, coordinate system and graphing, solving quadratic equations, factoring, rational expressions, complex fractions, roots, radicals, and functions. Upon successful completion of DEVS 0330, the student will be enrolled in MATH 1311. Laboratory time is required. (Fall, Spring, and Summer as needed)

**DEVS 1100**

**Strategies For Learning (3-0)** Strategies for Learning is a practical course designed to assist students in the acquisition and application of skills and attitudes necessary to reach their educational goals and to succeed in the university setting. Some out-of-class academic development activities may be required. Elective credit. (Fall, Spring)

**EARLY CHILDHOOD EDUCATION****ECED 3300**

**Theory and Practice in Early Childhood Education (ages 3 to 8) (3-0)** A comprehensive study of the conceptual framework that reflects the purposes, objectives and practices in the preparation of early childhood professionals. The course will integrate theory and practice and will prepare the student for experiences in early childhood programs which serve diverse student populations and their families. Field experiences in a TEA accredited kindergarten or early childhood classroom are required. (Fall, Spring, Summer)

**ECED 3330**

**Teaching Elementary Math I EC-6 (3-0)** Prerequisites: A grade of "C" or better in MATH 1311 or higher and READ 3300. This course is also cross-listed as MATH 3330. This course introduces the prospective teacher to concepts and developmentally appropriate instructional strategies for math taught at the EC through Grade 6 levels. Students will develop an understanding of fundamental elementary math concepts such as problem solving, the development of early number concepts and number sense, mastery of math facts, operations, fractions and decimals, and proportional reasoning through active and investigative projects and activities. (Fall, , spring, summer) (Required for Math EC-6 certification, and Math grades 4-8 certification)

**ECED 3331**

**Teaching Elementary Math II EC-6 (3-0)** Prerequisites: MATH/ECED 3330, and junior standing. This course is also cross-listed as MATH 3331. This course will introduce the prospective teacher to concepts and developmentally appropriate instructional strategies for math taught at the EC through Grade 6 levels. Students will develop understanding of fundamental elementary math concepts such as geometry and measurement, algebraic thinking, statistics and probability through active and investigative projects and activities. During long semesters students will tutor 5th grade students in math. (Spring, spring, summer) (Required for EC-6 certification)

**ECED 3360**

**Teaching Social Studies EC- 6 (3-0)** Prerequisites: Completion of general education requirements in Global Perspectives. Study of appropriate TEKS for social studies, review and development of concepts appropriate to the TEKS, an under-

## Course Descriptions - Undergraduate

standing of the purpose and function of social studies in the curriculum, development of appropriate lessons and units, and demonstration of skills for using technology in the classroom. (Spring, Summer) (Required for EC-6 Certification)

### ECED 3361

**Teaching Social Studies 4-8 (3-0)** Prerequisites: Junior standing, completion of general education requirements in history and political science and a declared major with a middle school social studies teaching field. Study of appropriate TEKS for social studies, review and development of concepts appropriate to the TEKS, an understanding of the purpose and function of social studies in the curriculum, development of appropriate lessons and units, and demonstration of skills for using technology in the classroom. (Spring, Summer)

### ECED 4330

**Language Acquisition and Development (3-0)** Prerequisites: READ 3300, 3310, and 3334. An introduction to the theories of language acquisition and the stages of language development. Includes reading and research in the areas of sociolinguistics and psycholinguistics. (Fall, Spring, Summer in odd numbered years) (Required for grades EC-6 certification and for ESL and Bilingual Supplemental endorsement)

### ECED 4370

**Teaching Science EC-6 (3-0)** Prerequisites: Senior standing, and one lab science course. A course specifically designed to acquaint the prospective teacher with the methods used and the material covered in teaching physical, life, earth and space science in EC-Grade 6. This course calls for advanced skills in instructional planning and should not be taken early in the major. A hands-on, inquiry-based approach is stressed; students will have opportunities to design and teach science lessons to other members of class. (Fall, Spring) (Required for EC-6 certification)

### ECED 4371

**Teaching Science 4-8 (3-0)** Prerequisites: Senior standing, one lab science course, and a declared major with a middle school science teaching field. A course specifically designed to acquaint the prospective teacher with the methods used and the material covered in teaching physical, life, earth and space science in fourth through sixth grade. This course calls for advanced skills in instructional planning and should not be taken early in the major. A hands-on, inquiry based approach is stressed; students will have opportunities to design and teach science lessons to other members of class. (Fall, Spring, Summer)

### ECED XX99

**Special Topics ECED (3-0)** Prerequisite: Permission of Instructor. A study offered occasionally to groups of students to broaden departmental curriculum, to meet student demand, or to observe special events. May be repeated for credit when topics vary.

## ECONOMICS

### ECON 2310

**Principles Of Macroeconomics (3-0)** Prerequisites: None. Designed to partially fulfill the Business Core Course Requirement for the BBA, and optional for the General Education Requirement for Personal and Global Perspectives. Economic principles that focus on the level and distribution of national income, full employment and price stability, money and banking, monetary and fiscal policy, and economic growth. Various macroeconomic models are analyzed. (Fall, Spring) (TCCN ECON 2301)

### ECON 2320

**Principles Of Microeconomics (3-0)** Prerequisites: None. Designed to partially fulfill the Business Core Course Requirement for the BBA, and optional for the General Education Re-

quirement for Personal and Global Perspectives. Economic principles that focus on households, business firms, industries and international trades. Includes demand, supply, costs of production, and the market structures of pure competition, oligopoly, monopolistic competition and monopoly. (Fall, Spring) (TCCN ECON 2302)

## ENGLISH

### ENG 1310

**Composition and Rhetoric (3-0)** Prerequisites: DEVS 0310 or placement demonstrated by ACT or SAT scores, high school transcript, CLEP, or departmental exam. Required for all degree programs, this course provides an intensive study and practice of the fundamental principles of exposition leading to the habit of effective writing. Classes, limited in size, are workshops with individual instruction. (Fall, Spring, Summer as needed) (TCCN ENGL 1301)

### ENG 1320

**Composition and Literature (3-0)** Prerequisite: ENG 1310. Required for all degree programs, this course acquaints students with the written analysis of literary works including representative examples of poetry, drama, and prose fiction. (Fall, Spring, Summer as needed) (TCCN ENGL 1302)

### ENG 2300

**Expository Writing** Prerequisites: ENG 1310, 1320. A workshop-style course in essay-writing for the student who desires instruction and practice beyond the freshman (or high school dual-credit) level. Students will write approximately four medium-length essays of various types and, based on instructor feedback, complete substantial revisions of each. At least one essay will include research and the incorporation of secondary sources. Class enrollment will be kept at a minimum, and the instructor will devote considerable attention to each student and his or her writing. The course will also include a thorough review of punctuation, grammar, and style. The course is open to students of all majors and disciplines. (Spring)

### ENG 2310

**Masterpieces of British Literature (3-0)** Prerequisite: ENG 1320. This course surveys significant works of British literature from the Anglo-Saxon period to the present. Individual instructors may vary the choice and treatment of texts to explore developments of theme (i.e., the hero, journey, monsters) or genre. (Fall, Spring, Summer as needed) (TCCN ENGL 2321, 2322, 2323)

### ENG 2320

**Masterpieces of American Literature I (3-0)** Prerequisite: ENG 1320. This course surveys significant works of American literature from pre-colonial times to the present. Individual instructors may vary the choice and treatment of texts to explore developments of theme (i.e., the hero, journey) or genre. (Fall, Spring, Summer as needed) (TCCN ENGL 2326, 2327, 2328)

### ENG 2330

**Masterpieces of World Literature (3-0)** Prerequisite: ENG 1320. This course surveys great works of literature from around the world. Individual instructors may vary the choice and treatment of texts to explore developments of theme (i.e., the hero, journey, monsters) or genre (i.e., tragedy, epic, romance). (Fall, Spring, Summer as needed) (TCCN ENGL 2331, 2332, 2333)

### ENG 2350

**Topics in Literary Study (3-0)** Prerequisite: ENG 1320. This course examines literature through the lens of a particular topic (i.e., women, sports, law), region (i.e., the Southwest, Southern Gothic, colonialism), or genre (i.e., the lyric, tragedy, comedy). (Fall, Spring, Summer as needed)

**ENG 3310**

**Medieval English Literature (3-0)** Prerequisite: One sophomore-level English course. Provides a study of the prose and poetry of English literature from earliest Anglo-Saxon times to 1500. (Spring 2013)

**ENG 3313**

**World Literature (3-0)** Prerequisite: At least one sophomore-level English course. The course is a comparative study of representative literary masterpieces of major world literatures. Topics will vary. (Spring 2014)

**ENG 3315**

**Children's Literature I (3-0)** Prerequisite: At least one sophomore-level English course. Survey of seven genres of children's literature from ancient to present times, with emphasis on award-winning selections. Special emphasis on use of children's books in elementary grades. (Fall, Summer)

**ENG 3316**

**Children's Literature II (3-0)** Prerequisite: At least one sophomore-level English course. A survey of books suitable for readers in the upper elementary school. It will include a survey of Newbery Award Winning authors and texts. All seven genres of literature will be studied. (Required for Grades 4-8 certification and English Language Arts and Reading 8-12 certification). (Spring, Summer)

**ENG 3320**

**English Renaissance (3-0)** Prerequisite: At least one sophomore-level English course. Topics include Shakespeare, Milton, and other major Sixteenth- and Seventeenth-Century prose stylists, dramatists, and poets. (Summer as needed)

**ENG 3330**

**Restoration and 18th Century English Literature (3-0)** Prerequisite: At least one sophomore-level English course. This course surveys major literary trends from the Restoration to the Pre-Romantic Movement with reading in essays (including journalism), political-religious satires, philosophical and lyric poems, drama, and the novel. (Spring 2014)

**ENG 3341**

**English Romanticism (3-0)** Prerequisite: At least one sophomore-level English course. This course examines poetry and prose of English Romanticism (1790-1830) in light of dominant philosophical, social, political, and literary trends of the period. (Spring 2013)

**ENG 3342**

**The Victorian Period (3-0)** Prerequisite: At least one sophomore-level English course. Topics include major English poets and prose writers, 1830-1900, with emphasis on distinctive approaches to common artistic, intellectual, and social problems. (Fall 2014)

**ENG 3371**

**Seventeenth- and Eighteenth- Century American Literature (3-0)** Prerequisite: At least one sophomore-level English course. The student examines Colonial writings from a critical and historical perspective, with an emphasis on important developments in religious, political, and social thought. (Fall 2013)

**ENG 3372**

**Studies in Nineteenth-Century American Literature (3-0)** Prerequisite: At least one sophomore-level English course. Students examine the texts and contexts of selected major American nineteenth-century writers. (Fall 2014)

**ENG 3373**

**Studies in Modern Literature (3-0)** Prerequisite: At least one sophomore-level English course. Topics include an examination of one or more major authors, styles, genres, de-

caes, or movements important to an understanding of modern literary culture. May be repeated when both instructor and texts vary. (Spring)

**ENG 3374**

**Studies in Contemporary Literature (3-0)** Prerequisite: At least one sophomore-level English course. Course may examine a phase, school, or collection of writers whose works reflect the state of letters since the end of World War II. (Fall even years)

**ENG 3380**

**Film and Literary Classics (3-0)** Prerequisite: At least one sophomore-level English course. Students will be introduced to the comparative study of the fundamental, pervasive, and significant transformations and connections between film and literature. Possible offerings might range from "Film and Shakespeare" to "Film and the Novel." Analytical papers will be required. (Summer as needed)

**ENG 3383**

**Theories of Composition (3-0)** Prerequisite: At least one sophomore-level English course. Education majors with English teaching fields should take this course, if at all possible, in the fall semester of their junior year. This course provides an examination of classical and contemporary theories of composition and their application to understanding the various modes of academic and expressive writing. (Fall)

**ENG 3385**

**Professional and Technical Writing (3-0)** Prerequisite: At least one sophomore-level English course or permission of instructor. Students will learn the use of rhetorical strategies, common formats, and research procedures appropriate to the professions, including business, the sciences, and law. (Fall odd years)

**ENG 4309**

**Holocaust through the Eyes of Elie Wiesel (3-0)** Prerequisite: ENG 1310, 1320. This course examines the Holocaust through the writings of Elie Wiesel, a renowned Holocaust survivor. Readings by Wiesel are augmented with film and documentary presentations. Implications and events of the Holocaust are examined through religious, literary, and historical perspectives. Cross-listed with REL 4309. (May)

**ENG 4320**

**Shakespeare (3-0)** Prerequisite: At least one junior-level English course or permission of instructor. This course will require critical readings of Shakespeare's greatest poetry and dramas (histories, comedies, tragedies). (Fall semesters)

**ENG 4340**

**Studies in a Major Author (3-0)** Prerequisite: At least one junior-level English course or permission of instructor. Topics will vary and may include British, American, or world literary figures who have had an impact on English-language literature. May be repeated for credit as author varies. (Spring even years)

**ENG 4360**

**Literary Theory (3-0)** Prerequisite: At least one junior-level English course or permission of instructor. Surveys the development of major critical theories concerning literature. (Spring)

**ENG 4371**

**Poetry Workshop (3-0)** Prerequisite: At least one sophomore-level English course or permission of instructor. This workshop-style seminar will provide students with practice writing fiction and poetry and critiquing poems written by members of the class. (Fall odd years)

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### ENG 4372

**Fiction Workshop (3-0)** Prerequisite: At least one sophomore-level English course or permission of instructor. This workshop-style seminar will provide students with practice writing fiction and critiquing stories written by members of the class. (Spring odd years)

### ENG 4374

**Writing for Newspapers and Magazines (3-0)** Prerequisite: At least one sophomore-level English course or permission of instructor. Topics include a study of the basic news writing techniques; a brief survey of the history of journalistic media; an investigation of the theories of journalism; and an examination of contemporary techniques and problems in journalistic writing. (Fall even years)

### ENG 4375

**Writing for Television and Radio (3-0)** Prerequisite: At least one sophomore-level English course or permission of instructor. This course will introduce techniques of interviewing and fundamentals of researching and organizing features for radio and television. (Spring even years)

### ENG 4379

**Elementary Language Arts Concepts 4-8 (3-0)** Prerequisite: Senior standing and successful completion of the General Education requirements in English and Reading. The student will study the scope and sequence of the TEKS (Texas Essential Knowledge and Skills Standards) for language arts instruction and the concepts necessary to teach them. Individual skills will be refined and consideration will be given to classroom applications. (Fall)

### ENG 4381

**TEKS and the Secondary English Curriculum (3-0)** Prerequisite: Junior standing and completion of the General Education requirements in English. The student will learn how to design and implement instruction that is appropriate for each student, that reflects knowledge of the TEKS (Texas Essential Knowledge and Skills), that integrates all components of the English language arts (i.e. writing, reading, listening/speaking, viewing/representing), and that is based on continuous assessment. (Spring)

### ENG 4382

**Introduction to Linguistics (3-0)** Prerequisite: At least one junior-level English course or permission of instructor. This course provides an introduction to theoretical and applied linguistics including both the historical and structural analysis of the English language. (Spring)

### ENG 4384

**Advanced Grammar (3-0)** Prerequisite: At least one junior-level English course or permission of instructor. Topics include an introduction to the current theory and practice of grammars of English. (Fall odd years)

### ENG 4X95

**Independent Studies (variable credit)** Prerequisites: At least two upper-division English courses or permission of instructor. This is a study program arranged between an advanced student and an instructor to provide intensive study in a particular area of interest. The course includes a definition of goals appropriate for the advanced student, ways of attaining those goals, a schedule for frequent consultation, and means of assuring progress. (By arrangement)

### ENG 4X96\*

**Honors Tutorial (variable credit)** Prerequisite: 15 hours of English credit and admission to the Honors Program. Open to student candidates for honors graduation in English, this course includes reading and research in a particular topic of literature, linguistics, or language. (By arrangement)

### ENG 4X97\*

**Senior Thesis (variable credit)** Prerequisite: Senior standing, admission to the Honors Program, and permission of instructor. Open to student candidates for honors graduation in English, this course focuses on independent research on a topic approved by the faculty of the department, with a final product of a 75-150 page essay submitted for the approval of the department. (Honors graduates must successfully complete either Senior Thesis or Senior Opus) (By arrangement)

### ENG 4X98

**Senior Opus (variable credit)** Prerequisite: Senior standing, admission to the Honors Program, and permission of instructor. Open to student candidates for honors graduation in English, this course focuses on a creative writing project, either prose, drama, or poetry, with a final product of a 75-150 page essay submitted for the approval of the department. (Honors graduates must successfully complete either Senior Thesis or Senior Opus) (By arrangement)

### ENG XX99

**Special Topics (variable credit)** Prerequisite: Permission of instructor. Courses of this nature are offered occasionally to groups of students to broaden departmental curriculum, to meet student demand, or to observe special events. May be repeated for credit when topics vary. (By arrangement)

## FINE ARTS

### FA 2310

**Survey of Fine Arts (3-0)** Prerequisites: None. This course is aimed at all students interested in gaining a broad understanding of the fine arts disciplines and satisfies the fine arts component in the General Education requirements. A survey of the inter-relationship of fine arts disciplines (painting, sculpture, music, theatre, architecture, film, and photography) and their relationship to political and social change through the course of history. The course will provide a rudimentary knowledge of the fine arts disciplines, with specific emphasis on recognized artistic movements in their historical contexts. (Fall, Spring as needed)

## FINANCE

### FIN 3330

**Personal Finance (3-0)** Prerequisite: None. Study of personal finance principles and concepts with major emphasis on financial planning, budgeting, cash management, credit management, taxes, major expenditures, income and asset protection, and investment planning. (May not be used to meet degree requirements in the finance concentration.) (Spring)

### FIN 3340

**Business Finance (3-0)** Prerequisites: ACCT 2310, ECON 2310, 2320 and B A 3370, or permission of instructor. Acquisition and use of funds by business firms with emphasis on techniques of analysis for decision making. (Fall, Spring)

### FIN 3350

**Money And Banking (3-0)** Prerequisite: FIN 3340. Functions and policies of the American monetary and banking system in the United States; Federal Reserve Bank; bank credit policy; monetary theories and policies. (Spring)

### FIN 3370

**Investments (3-0)** Prerequisites: B A 3370 and FIN 3340. Introductory course concerned with theory and practice of U.S. securities markets; characteristics and valuation of stocks, bonds, options and various other investments. (Spring)

**FIN 4320**

**Advanced Seminar In Finance (3-0)** Prerequisite: FIN 3340. A continuation of Business Finance that employs the tools, techniques, concepts and theories mastered in previous courses. Cases will be analyzed by the student who will determine the best method of finding and allocating capital for the firm. (Fall)

**FIN 4340**

**International Financial Markets (3-0)** Prerequisite: FIN 3340. This course will stress the fact that we live in an increasingly integrated world market, and will encourage the student to be familiar with the international dimension of business, both its substance and its subtleties. It will provide the student with a working knowledge of Eurodollars, Eurobonds, and interest rate swaps and their use. The course will include international hedging tactics and derivative securities. (Fall)

**FIN 4345**

**Student Managed Investment Fund I (3-0)** Prerequisites: FIN 3340 and 3370, or permission of instructor. This hands-on investment course teaches security analysis and money management through the use of a university endowed fund. Study of economic and financial analysis focused on investing in long term equities, with discussion covering topics ranging from investment philosophy and ethics, to capital market history. (Fall)

**FIN 4346**

**Student Managed Investment Fund II (3-0)** Prerequisites: FIN 4345, or permission of instructor. A continuation of FIN 4345; This hands-on investment course teaches security analysis and money management through the use of a university endowed fund. Study of economic and financial analysis focused on investing in long term equities, with discussion covering topics ranging from investment philosophy and ethics, to capital market history. (Spring)

**FIN 4X88**

**Internship (variable credit)** A pre-approved and supervised work experience designed to supplement academic training. Credit may be granted for one, two, or three semester hours. A student completing a dual concentration could be eligible for an internship in each concentration; however, a separate internship work experience would be required for each concentration. Interested students should discuss this course with the Director of Business Internships. (Spring, Fall)

**FIN 4X95**

**Independent Studies (variable credit)** Prerequisites: Senior standing and consent of the Dean. A study program arranged between an advanced student and an instructor to provide intensive study in a particular area of interest. The course includes a definition of goals appropriate for the advanced student, ways of attaining those goals, a schedule for frequent consultation, and means of measuring progress. (By arrangement)

**FIN XX99**

**Special Topics (variable credit)** Prerequisite: Permission of Instructor. A course study offered occasionally to groups of students to broaden departmental curriculum, to meet student demand, or to observe special events. May be repeated for credit when topics vary. (By arrangement)

**GEOSCIENCES****GEOS 1405**

**Environmental Geology (3-3)** Prerequisites: None. Optional course for general education requirements in Natural Science. A study of earth resources including soils, mineral deposits, energy resources and water. It includes water pollution prob-

lems and the closely related problems of waste disposal. Hazards of flooding are also covered. Several local field trips are taken. (Fall, Spring) (TCCN GEOL 1405)

**GEOS 1410**

**Physical Geology (3-3)** Prerequisites: None. Optional course for general education requirements in Natural Science. A study of minerals and rocks in the earth's crust and how they form. It also includes a study of various geologic processes like plate tectonics, volcanic eruptions, earthquakes and landslides. (Fall) (TCCN GEOL 1403)

**GEOS 2420**

**Meteorology (3-3)** Prerequisite: MATH 1311 (or equivalent) or higher. This can be a first course for anyone interested in the earth sciences. Optional course for general education requirement in Natural Science. Introduction to basic meteorology. Students learn how the atmosphere is affected by various factors such as solar influences, pressures and winds. They explore the development of upper-level weather systems and learn short-term forecast techniques. Included in the lab activities is a visit to a local TV station and computer assignments on the internet. (Spring, on demand) (TCCN GEOL 1447)

**GEOS 3210**

**Geology of Texas (2-0)** Prerequisite: GEOS 1410. A study of the rocks, fossils, and geologic structures in Texas and what they tell us about the geologic history of this region. At least two all-day field trips are planned. This is an experience-enriched course.

**GEOS 3220**

**Applied Environmental Geology (1-3)** Prerequisite: GEOS 1410. A study of environmental problems especially those dealing with water resources, water pollution and soils. Several short field-trips will be taken. This is an experience-enriched course.

**GEOGRAPHY****GEOG 3330**

**Biogeography (3-0)** Prerequisites: GEOS 1405, BIOL 1402 and BIOL 1403. An introduction to the history of life on Earth and how that history is reflected in the current distribution of living things and the taxonomy of life. Emphasis is given to the biotic and abiotic factors affecting the distribution of living things, and what the patterns of distribution tell us about the natural environment. (Spring)

**GREEK****GRK 2410, 2420**

**New Testament Greek Grammar I and II (4-0, 4-0)** Prerequisites: None. The course introduces the fundamentals of New Testament Greek grammar and vocabulary, with emphasis on the use of language in biblical translation and interpretation. Students will begin translating biblical texts at the end of the second semester. (2410 every other Fall even years; 2420 every other Spring odd years)

**GRK 3310**

**Greek Translation I (3-0)** Prerequisites: GRK 2410, 2420. The course features the translation of biblical text with an emphasis on understanding grammar and syntax. Students will also learn the fundamentals of textual criticism. (Every other Fall odd years)

**GRK 3320**

**Greek Translation II (3-0)** Prerequisites: GRK 2410, 2420, 3310. The course features translation of biblical and non-bibli-

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cal texts. Students will learn the fundamentals of exegesis. (Every other Spring even years)

### GRK XX95

**Independent Studies (variable credit)** Prerequisites: advanced standing in a major or minor and permission of instructor. Upper level elective for majors and minors. This is an advanced study or research program arranged between supervising faculty and the student, which defines goals appropriate for the advanced student, ways of attaining those goals, a schedule for frequent consultation, and a means for measuring progress. (By arrangement)

### GRK XX99

**Special Topics (level and credit variable)** Prerequisite: Permission of instructor. Elective for majors and minors. Courses of this nature are infrequent or unique topics of study offered occasionally to groups of students to broaden the departmental curriculum, to meet student demand, or to observe special events. Courses of this type may be repeated for credit when topics vary. (By arrangement)

## HISTORY

### HIST 1310

**World Civilization to 1500 (3-0)** Prerequisite: None. Survey of world civilization from its origins to the Renaissance and Reformation in Europe. Comparison of European civilization with the non-Western world: Far East, India, Africa, the Americas. (Fall, spring) (TCCN HIST 2321)

### HIST 1320

**World Civilization Since 1500 (3-0)** Prerequisites: None. Survey of world history since the Renaissance and Reformation: absolutism, revolution, and industrialization in Europe; imperialism and the non-Western world; the two World Wars; the growth of non-Western nationalism; the contemporary world. (Fall, spring) (TCCN HIST 2322)

### HIST 2310

**United States to 1877 (3-0)** Prerequisites: None. General survey of American history to 1877, concentrating on colonial foundation, national growth, Civil War, and Reconstruction. Problems of the nature of history. (Fall, Spring, Summer I) (TCCN HIST 1301)

### HIST 2320

**United States Since 1865 (3-0)** Prerequisites: None. General survey of American history since 1865, concentrating on economic, social, political, and intellectual developments. Problems of historical evidence and research. (Fall, Spring, Summer II) (TCCN HIST 1302)

### HIST 2330

**Virtue in World History (3-0)** Prerequisites: None. Using comparative study techniques, this course will examine basic ideas of leadership and virtue as demonstrated in the lives and ideas of major figures in world history. The course will engage students to explore the question of how virtue informs effective leadership, using concrete historical case studies. Satisfies general education requirement for Leadership, Excellence, and Virtue; cannot be used to fulfill the history course requirements of the history major or minor, or of the social studies teaching field. (As needed)

### HIST 2340

**Virtue in American History (3-0)** Prerequisites: None. Using comparative study techniques, this course will examine basic ideas of leadership and virtue as demonstrated by the lives and ideas of major figures in United States history. The course will

build several frameworks about the nature of leadership and virtue in United States history and will allow students to explore the different ways in which these ideals were manifested through the lives of a variety of political, cultural, religious, and social leaders throughout history of the nation. Satisfies general education requirement for Leadership, Excellence, and Virtue; cannot be used to fulfill the history course requirements of the history major or minor, or of the social studies teaching field. (As needed)

### HIST 3310

**Texas (3-0)** Prerequisites: None. Cultural, social, economic, and political history of Spain in Texas, Mexican Texas, the Republic; 19th and 20th century developments; minorities in Texas; geography of Texas. (Spring)

### HIST 3314

**Spanish Texas (3-0)** Prerequisites: Six hours of lower-level history or permission of the instructor. The course provides a survey of Spanish exploration, colonization, and hegemony in what is now the state of Texas from 1519 to 1821. Topics will include explorers and conquistadors; the French challenge; international rivalry; mission, presidio, and villa expansion; Anglo-American settlement and the decline of the missions; the twilight of Spanish Texas; and the legacies of Spanish Texas. (Spring)

### HIST 3315

**Texas Revolution and Republic (3-0)** Prerequisites: Six hours of lower-level history or permission of the instructor. The course provides a survey of Anglo-American immigration, settlement, and hegemony in Texas from 1821 to 1846. Topics will include Mexican Texas, the road to revolution, the Texas Revolution, and the Texas Republic. (Spring)

### HIST 3316

**Texas From Statehood to National Leadership (3-0)** Prerequisites: Six hours of lower-level history or permission of the instructor. This course will provide a survey of Texas history, politics, and social life from 1846 to the transformational discovery of oil at Spindletop in 1901. Topics will include early statehood, pioneer institutions, secession and war, reconstruction, reform, advance of the frontier, and life in Texas at the turn of the century. (Spring)

### HIST 3317

**The Crafting of the Texas National Character (3-0)** Prerequisites: Six hours of lower-level history or permission of the instructor. The course will provide an introduction to Texas life and culture. Topics will include myth, mystique, music, food, and sports. (Spring)

### HIST 3320

**The Grand Tour of Texas (3-0)** Prerequisites: Six hours of lower-level history or permission of the instructor. This three-week MayTerm course will involve a bus tour of the state's six geographic regions. Stops during the journey will include natural wonders, archival repositories, historic sites, museums, and restaurants. Some of the state's most distinguished historians will meet students and conduct tours. (MayTerm)

### HIST 3331

**Modern Britain (3-0)** Prerequisites: Six hours of lower-level history or permission of instructor. British history since 1485 after brief background on the developments of the medieval period. Topics include the English Reformation, the development of Parliament, the growth of the British Empire, industrialization, liberalism, and collectivism. (Fall even years)

### HIST 3350

**Colonial and Revolutionary America, 1607-1789 (3-0)** Prerequisites: Six hours of lower-level history or permission of instructor. A study of the culture and institutions of the United States as developed through English colonization in the seven-



teenth and eighteenth centuries. Political, economic, technological, cultural, and religious aspects of the British North American colonies, including their fight for independence and the quest for a national government. (Fall odd years)

**HIST 3351**

**The Early American Republic, 1787-1848 (3-0)** Prerequisites: 6 hrs of lower-level history or permission of instructor. The United States from the adoption of the Constitution of 1787 through the Mexican War. Political institutions and practices, economic growth, reform movements, and westward expansion are emphasized. (Spring even years)

**HIST 3352**

**Civil War and Reconstruction (3-0)** Prerequisites: Six hours of lower-level history or permission of instructor. A study of the social, economic, and political causes of the Civil War, the events leading to the outbreak of hostilities, and the war itself. The study also includes an analysis of the attempts to reunite the nation, to reconstruct the South, and to integrate the freedmen into society. (Fall odd years)

**HIST 3354**

**Contemporary United States (3-0)** Prerequisites: Six hours of lower-level history or permission of instructor. Recent developments in American society, investigating the unity and diversity of American life in its cultural, political, economic, and intellectual aspects in the second half of the 20<sup>th</sup> century. (Fall even years)

**HIST 3358**

**Greece and Rome: An Introduction to the Classical World (3-0)** Prerequisites: Six hours of lower-level history or permission of the instructor. A study of the origins, development, and decline of ancient Greece and Rome, including Hellenism, Christianity, and the German migrations. Incorporates the development of the Western cultural tradition with an emphasis on classical literature, philosophy, art, and architecture. (Fall odd years)

**HIST 3359**

**The Middle Ages: The Crucible of Western Civilization (3-0)** Prerequisites: Six hours of lower-level history or permission of the instructor. Europe from the time of Constantine until the Renaissance. The Middle Ages was a dynamic era when modern Europe was formed by the fusion of Greco-Roman culture, German tribal life, and the universal Christian church, tempered by the storm of Islam. The importance of the Medieval period to Western civilization will be emphasized by surveying the history, arts, literature, and culture of the period. (Spring even years)

**HIST 3360**

**Renaissance and Reformation (3-0)** Prerequisites: Six hours of lower-level history or permission of instructor. Origins of Renaissance humanism, commercial and scientific revolutions, national states. Protestant and Catholic Reformations; wars of religion. European overseas exploration and conquest. (Spring odd years)

**HIST 3363**

**Nineteenth Century Europe (3-0)** Prerequisites: Six hours of lower-level history or permission of instructor. Study of European civilization during the "long" 19th century, from the French Revolution to the eve of World War I. Impact of the Industrial Revolution on European life, the growth of liberalism and socialism, and the emergence of modern mass society and consciousness. (Fall odd years)

**HIST 3364**

**Twentieth Century Europe (3-0)** Prerequisites: Six hours of lower-level history or permission of instructor. Study of Europe from the outbreak of World War I to the present, emphasizing

the aftermath of World War I, the crises of the Depression years, World War II, the Cold War, and the post Cold War era. (Spring even years)

**HIST 3375**

**Mexico (3-0)** Prerequisites: Six hours of lower-level history or permission of instructor. The history of Mexico from pre-historic times to the present: political, economic, social, and intellectual development; United States-Mexican relations. (Fall odd years)

**HIST 3377**

**Historiography and Methods (3-0)** This course is an introduction to the discipline of history and a survey of research methodology as employed by historians. Unlike other undergraduate courses in history, it is not a study of the past; instead, it is a study of the philosophy of history, investigative techniques, and the mechanics of historical research. This course will provide a research practicum during which students will be able to employ the material they are surveying as part of a project, the topic of which will be of their choice within the limits of the course. (Spring)

**HIST 432(a-z)**

**Great Books and History (3-0)** Prerequisites: Six hours of lower level history, or permission of instructor. History as presented in the Great Books of the Western Canon. Close readings of primary texts to illuminate problems related to the development of Western society and culture, and to stimulate critical thinking. The content of each course will vary and the student may repeat course for credit when the topic differs. This course is designed for history majors and minors and as an upper division elective for interested students. (Fall)

**HIST 4330**

**The American Frontier (3-0)** Prerequisites: Six hours of lower-level history or permission of instructor. An exploration of the unique pioneering spirit in American history with an examination of the European and American experiences in settling new lands from 1540 to 1890. Emphasis on social and cultural history with special treatment of American expansionism, Manifest Destiny, and the frontier experience of women and Native Americans. (Fall even years)

**HIST 4345**

**Special Topics in American History (3-0)** Prerequisites: Six hours of lower-level history or permission of instructor. Focus on a particular area of United States history, such as diplomatic, economic, local, or military history. Emphasis on appropriate research and specialized readings. May be repeated for credit when topics vary. (As needed)

**HIST 4354**

**The U.S. in the Era Of World War (3-0)** Prerequisites: Six hours of lower-level history or permission of instructor. Study of the United States during the era of the World Wars (1914-1950) including America's coming of age as a world power, politically, militarily, economically, and culturally. (Fall even years)

**HIST 4360**

**Russia and the Soviet Union (3-0)** Prerequisites: Six hours of lower-level history or permission of instructor. Background to 19th century. Tsarist Russia: autocracy, revolutionary intelligentsia. Economic, social developments. The Russian Revolution. Lenin, Stalin, the 5-Year Plans. World War II, Cold War, de-Stalinization, and the demise of the Soviet system. (Fall even years)

**HIST 4365**

**Modern Germany (3-0)** Prerequisites: Six hours of lower-level history or permission of instructor. Survey of the main elements of German history in the 19th and the 20th centuries, from

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disunity to Reich to partition to reunification. Emphasis on the question of continuity between key periods and figures and their responsibility for the two World Wars. (Spring odd years)

### HIST 4375

**Special Topics in World History (3-0)** Prerequisites: Six hours of lower-level history or permission of instructor. Focus on a particular area of world history, such as international relations, economic history, imperialism, history of science, Eastern Europe, or Modern Far East. Emphasis on appropriate research and specialized readings. May be repeated for credit when topics are different. (As needed)

### HIST 4380

**Senior Research Seminar.** Prerequisite: HIST 3377, or permission of the instructor. This course involves research on a specialized historical topic culminating in a seminar paper. Students will demonstrate breadth of knowledge and skills mastered since their introduction in other history courses. Subject of seminar paper to be determined by the student, in consultation with the instructor. This is the capstone course for History. (Fall)

### HIST 4X95

**Independent Studies.** Prerequisites: Six hours of lower-level history or permission of instructor. A study program arranged between an advanced student and an instructor to provide intensive study in a particular area of interest. The course includes a definition of goals appropriate for the advanced student, ways of attaining those goals, a schedule for frequent consultation, and means of measuring progress. (By arrangement)

### HIST 4X96\*

**Honors Tutorial.** Prerequisites: 15 hours in history and admission to departmental honors program. Designed for the honors student in history; includes reading in a particular topic, historical and historiographical analysis, and research. Required for Honors Program. (By arrangement)

### HIST 4X97\*

**Senior Thesis.** Prerequisites: 18 hours in history, admission to departmental honors program, and approval of research project by department and Honors Committee. Designed for the candidate for departmental honors and as a capstone course for the student majoring in history. An independent research project on a topic approved by the history faculty; findings reported in writing and orally to the faculty of the department. Successful completion required for graduation with honors in history. Required for Honors Program. (By arrangement)

## HEALTH FITNESS

### HF 1120

**Racquet Sports (0-3)** Prerequisite: H F 1210 or 1200. This course is designed to teach the fundamentals of racquet sports. Rules and basic playing skills are taught, leading to singles and doubles game play. (Fall)

### HF 1130

**Team Sports (0-3)** Prerequisite: H F 1210 or 1200. This course is offered for coeducational participation in four or more team sports, with emphasis on personal development of skills to gain a satisfactory level of expertise. (Spring)

### HF 1140

**Aerobics (0-3)** Prerequisite: H F 1210 or 1200. Available for those students interested in basic cardiorespiratory activities and in gaining a satisfactory level of physical fitness through aerobics including low impact, step, and interval training. (Fall, Spring)

### HF 1141

**Fitness Aquatics (0-3)** Prerequisite: H F 1210 or 1200, and basic swimming skills. This course is designed to increase students' fitness through rigorous water exercise. The course will include a variety of exercises in the water to strengthen and tone the large muscles of the body, lap swimming and water aerobics to increase cardiovascular endurance. (As needed)

### HF 1143

**Power Walking (0-3)** Prerequisite: H F 1210 or 1200. This course is designed to develop cardiovascular endurance through the activity of brisk walking. Emphasis is on technique and practice to gain a satisfactory level of expertise. (As needed)

### HF 1144

**Introductory Jogging (0-3)** Prerequisite: H F 1210 or 1200. Available for those students desiring to reach and maintain a satisfactory level of basic physical fitness through jogging and running as a life-long activity. (As needed)

### HF 1190

**Personal Fitness (0-3)** Prerequisite: H F 1210 or 1200. This course is designed for students who need individualized programs to improve fitness. Psychomotor requirements include regular workouts using the American College of Sports Medicine exercise prescription for cardiovascular endurance, flexibility, and muscle strength and endurance. Students have input into methods of evaluation. (As needed)

### HF 1192

**Circuit Training (0-3)** Prerequisite: H F 1210 or 1200. This activity course is available for those students desiring to reach and maintain a satisfactory level of physical fitness. Circuit training activities will include resistance exercises, core training, and cardiovascular exercise. (As needed)

### HF 1193

**Group Exercise (0-3)** Prerequisite: H F 1210 or 1200. This course is available for those students interested in gaining a satisfactory level of physical fitness through exercise classes including improved cardiovascular endurance (through diverse exercise options), flexibility and muscular strength and endurance (through Core Training, and Yoga/Pilates sessions), combined with cognitive activities devoted to exercise adherence and proper nutrition. Students must average attendance at three sessions weekly (35 total) in order to successfully complete the course requirements. (Fall, Spring)

### HF 1200

**Fitness For Living Modified (1.5-1.5)** Prerequisites: Age 30 or above, medical exemption from activity, or permission of the instructor. This course is a modified version of H F 1210, designed for the mature or medically exempted student. Class will meet one 1.5 hour lecture per week, with approximately 1.5 hours per week of physical activity. Computer use required. (Fall, Spring)

### HF 1210

**Fitness For Living (1.0-2.0)** Prerequisites: None. Students explore health fitness concepts and practices, evaluate personal fitness, and select a concurrent laboratory activity for this basic course in the health fitness sequence. Fitness for Living is a pre-requisite to all Health Fitness courses unless otherwise approved by the instructor. Satisfies general education requirement. Concurrent enrollment in HF 1210 lab is required (Fall, Spring)

### HF XX99

**Special Topics (0-3)** Prerequisite: H F 1210 or 1200. Courses of study offered occasionally to students to broaden departmental curriculum, to meet student demand, or to observe special events.

## INFORMATION TECHNOLOGY

## IT 3310

**Information Security (3-0)**

Prerequisite: CIS 3311. Required course for IT major and minor. Introduces students to current principles and issues focused on security of information systems. Topics covered include security design principles, implementation, disaster recovery, countermeasures, and forensics. (Fall)

## IT 3320

**Systems Admin and Maintenance (3-0)**

Prerequisite: CSC 1325. Required course for IT major and minor. Introduces students to current issues related to administration and maintenance of information systems. Topics covered include operating system installation, configuration, maintenance, services, and support. (Spring)

## KINESIOLOGY

## KINE 1121-4122

**Apprentice Athletic Trainer Laboratory (0-20 hours in training room.)** (Also, 2121-2122, 3121-3122, 4121-4122-three year minimum) Prerequisite: Permission of director of athletic training. A minimum of 300 clock hours each fall and spring for a minimum of three academic years (1800 clock hours minimum) is required in training room and field experiences in administering to athletes. Daily logs, case by case critiques, study of related budgeting and acquisition of supplies, maintenance of training equipment and facilities are included in day-to-day experiences.

## KINE 2211

**Coaching Football (2-0)** Prerequisites: None. Examines strategies for coaching football at the secondary school level. Covers rules and regulations, fundamentals, organizational principles, scouting, technical tactics and other topics. (Fall)

## KINE 2212

**Coaching Basketball (2-0)** Prerequisites: None. Examines strategies for coaching basketball at the secondary school level. Covers rules and regulations, fundamentals, organizational principles, scouting, technical tactics and other topics. (Spring)

## KINE 2213

**Coaching Volleyball (2-0)** Prerequisites: None. Examines strategies for coaching volleyball at the secondary school level. Covers rules and regulations, fundamentals, organizational principles, scouting, technical tactics and other topics. (As needed)

## KINE 2214

**Coaching Track And Field (2-0)** Prerequisites: None Examines strategies for coaching track and field at the secondary school level. Covers rules and regulations, fundamentals, organizational principles, scouting, technical tactics and other topics. (Spring)

## KINE 2241

**Movement and Rhythmical Activities For Children (1.5-1.5)** Prerequisite: KINE 2330 or admission to the Teacher Education Program. Study of the current theories and emphasis on movement exploration and rhythms, including fitness activities for use in the Physical Education setting. This course includes information concerning methods and materials in natural and creative movement and exposure to a wide variety of available resources and aids for the various developmental levels in grades K – 12. (Spring odd years)

## KINE 2261

**Assessment of Athletic Injuries (2-0)** Prerequisites: KINE 2335 or permission of instructor. A study of injury assessment including athletic-related trauma from injuries to the axial region, lower extremities, and upper extremities. This course provides guidelines for development of a sound knowledge base and the skills required to effectively perform thorough and systematic athletic injury assessments. Course seeks to develop confidence in the student athletic trainer in injury recognition through use of prevalent assessment techniques. Required for Athletic Training Prelicensure. (Fall odd years)

## KINE 2330

**Foundations of Exercise Science (3-0)** An introduction to the various areas of exercise science and human performance, including historical background, professional opportunities, present status, individual awareness of professional responsibilities and familiarization with current trends and issues. Computer use required. (Fall, Spring)

## KINE 2335

**Accident Prevention and Care of Injuries (3-0)** A study of accident prevention as related to physical education and sports, with emphasis on anatomy and care of athletic injuries. (Fall, Spring) (TCCN PHED 2356)

## KINE 3100

**University Interscholastic League Rules (1-0)** Prerequisite: junior level standing. Focus on the rules governing Texas high school athletics as set by the University Interscholastic League. Emphasis on guidelines for member schools, coaches and athletes. This course is prerequisite for any coaching course and may be taken concurrently. (Fall, Spring)

## KINE 3230

**Adapted Physical Education (1-2)** Prerequisite: KINE 2330 or 2335. A study of selected special populations, with primary emphasis upon the unique needs, appropriate developmental activities, and suggested programs for cognitively and physically challenged. Off-site lab participations provide opportunities to interact with and provide lessons for individuals with disabilities in activity-based settings. (Spring)

## KINE 3300

**Statistics for Measurement and Evaluation In Kinesiology (3-0)** Prerequisites: KINE 2330, and MATH 1311 or higher. A study of fundamental purposes and procedures of data collecting and analysis. Statistical treatments for all types of data are practiced and applied to actual test administrations that estimate health fitness, skill fitness, and motor abilities. (Spring)

## KINE 3302

**Introduction to Motor Learning (3-0)** Prerequisites: KINE 2330, 2335, and 3321, or permission of instructor. Study of current theories and practices in motor learning and motor performance. The course emphasizes aspects of learning and performance of motor skills dealing specifically with selected concepts of skill development and their application to practice. (Fall)

## KINE 3307

**Nutrition for the Health Sciences (3-0)** Prerequisite: Any lab science. A study of the nutritional bases and strategies to enhance the health of sedentary, moderately active, and very active individuals, through all the stages of life. Attention is given to nutrient physiology, daily choice behavior, and the art of nutrition prescription. (Fall)

## KINE 3310

**Exercise Prescription (3-0)** Prerequisites: H F 1200/1210, and KINE 2330 or KINE 2335. An investigation into prescribing

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exercise to non-adapted persons. Particular emphasis is given to personal assessment, exercise modes, and programs interrelating duration, intensity, and frequency of exercise. (Fall)

### KINE 3320

**Exercise Leadership (3-0)** Prerequisites: H F 1210, KINE 2330, and KINE 3310. An interactive classroom-field experience in leading fitness groups. Class time is given to the exploration of leading techniques. Field time is spent leading campus fitness groups. Student field experiences are debriefed on a concurrent basis. (Spring)

### KINE 3321

**Anatomical Kinesiology (3-0)** Prerequisite: KINE 2335. A study of human anatomical and physiological structure, and fundamentals and mechanical principles of movement, with primary emphasis on the relationship of physical laws which govern the universe to the principles of kinesiology applied to physical education. (Fall, Spring)

### KINE 3325

**Biomechanical Kinesiology (3-0)** Prerequisites: Any lab Science, MATH 1311 or higher. A mathematical study of human motion. Mechanical applications are investigated using kinetics and kinematics under the separate or simultaneous conditions of translational and rotational motion. Individual kinematic project required.

### KINE 3331

**Personal and Community Health (3-0)** Prerequisites: H F 1200 or H F 1210. A study of health and fitness principles and methods. Specific emphasis is placed on maintaining personal health in a full and productive life. This course is specified for students pursuing licensure in athletic training and may be taken as a general elective by others. (As needed)

### KINE 3340

**Instructional Strategies for Elementary School Physical Education (2-1)** Prerequisites: KINE 2330 or admission to the Teacher Education Program. Presentation of the activities of physical education programs for the elementary school with emphasis upon curriculum planning, progressive selection of materials for different grades, methods of presentation, sources of aids and materials, and performance in fundamental movement activities that are appropriate for the elementary level. (Fall)

### KINE 3350

**Instructional Strategies for Secondary School Physical Education (2-1)** Prerequisites: KINE 2330 or admission to the Teacher Education Program. Same as KINE 3340 except that emphasis is given to secondary school programming and methodology. (Spring even years)

### KINE 3380

**Therapeutic Modalities and Rehabilitation of Athletic Injuries (3-0)** Prerequisite: KINE 2261. Focus on the knowledge and use of modalities in the rehabilitation of athletic injuries. Provides the student athletic trainer with a comprehensive guide to the design, implementation, and supervision of rehabilitation programs for sports-related injuries with particular emphasis on use of modalities and currently acknowledged sports medicine practices. Required for Athletic Training Pre-Licensure. (Spring, even years)

### KINE 4100

**Applied Pharmacology for Athletic Trainers (1-0)** Prerequisites: Senior status, or permission of the Director for Athletic Training. Completion of BIOL 2401 or BIOL 2402, and KINE 3321. General pharmacology of drugs acting on the autonomic,

cardiovascular, and central nervous systems. Principles governing drug-receptor interactions, dose-response relationships, desensitization, and tolerance. Required for all ESHP majors seeking athletic training concentrations. (Spring odd years)

### KINE 4120

**Pedagogical Apprenticeship (0-3)** Prerequisites: Senior status and successful completion, with a C or above, in six Health Fitness courses including at least one from: Fitness for Living, Racquet Sports, Team Sports, Cardiovascular Fitness. Involves 45 hours of leadership in laboratory or instructional settings related to departmental classes. (Fall, Spring)

### KINE 4220

**Laboratory Testing in Exercise Science (1.5-1.5)** Co-requisite: KINE 4320 or permission of instructor. An experiential survey of laboratory procedures and techniques in the measurement of human physical characteristics and performance. Assumption and error in research, as well as measurements of cardio-vascular endurance, body composition, blood pressure, pulmonary function, heart activity, and body shape are included. Statistical treatments and analyses are practiced and employed. A personal research project is required. (Spring)

### KINE 4320

**Physiology of Exercise (3-0)** Prerequisite: KINE 2335, 3321. BIOL 2401 is recommended. An investigation of the chronic and acute effects of exercise on human physiological functions. Emphasis is given to factors affecting athletic performance and functional health. (Fall, Spring)

### KINE 4325

**Risk Management in Exercise Science (3-0)** Prerequisite: Senior standing. An explanation of the liability implications of teaching/coaching or administering activity based programs. The course will examine the common bases of litigation against exercise science professionals, and the risk management techniques for minimizing liability in these situations. (Fall even years)

### KINE 4330

**Organization and Administration of Athletics (3-0)** Prerequisites: Senior status and 9 advanced Kinesiology hours. An overview of the role, structure and governance of interscholastic athletics programs. This course will enable students to develop and comprehend current knowledge, theories, and practices in athletic administration which operate within a governance framework of state and national policies and rules. (As needed)

### KINE 4340

**Advanced Techniques of Athletic Training (2-1)** Prerequisite: KINE 2261, 2335, 3380 and BIOL 2401. A study of theory and practice of athletic training in both the classroom and laboratory setting. Students will gain further advancement in the field of athletic training and its administrative concerns. This course will help students gain a better understanding of operational procedures relating to legal liability, budgeting, record keeping, proper facilities, training room policies, and the handling of insurance. Major emphasis will be placed on legal liabilities, injury rehabilitation, and injury recognition. Other areas of study will be modality use, drug education relating to athletes, and nutritional considerations for the athlete. This course is required for Athletic Training Pre-Licensure. (Spring odd years)

### KINE 4388

#### **Internship (0-9 contact hours in work setting)**

A course of study in an approved environment related to the student's career choice. The student will spend approximately 120-140 contact work hours on-site. A report of work experience, which includes content and format that has been agreed

upon by the student, University supervisor, and on-site supervisor will be required. This is an experience-enriched course and the capstone course for the Exercise Science and Human Performance major, and for the Exercise and Sports Studies minor. Usually taken semester of graduation. (*Taken during last semester at McMurry University*). (Fall, Spring)

**KINE 4X95**

**Independent Studies** Prerequisite: Twelve semester hours and approval of instructor. A study program arranged between an advanced student and an instructor to provide study in a particular area of interest. The course includes a definition of goals appropriate for the advanced student, ways of attaining those goals, a schedule for frequent consultation, and means of measuring progress.

**KINE 4X96\***

**Honors Tutorial** Prerequisite: Permission of instructor. A course of study for the honors student, designed as a supplement to other physical education courses. The study will be in greater depth than attempted in the other physical education courses, and perhaps on a topic not previously covered.

**KINE XX99**

**Special Topics** A course of study offered occasionally to groups of students to broaden departmental curriculum, to meet student demand, or to observe special events. May be repeated for credit when topics vary

**MATHEMATICS****MATH 1311**

**College Algebra (3-0)** This college algebra course focuses on modeling real data, e.g., environmental issues. Topics covered include linear and quadratic functions, systems of linear equations and matrices, exponential and logarithmic functions, series, inequalities, and linear programming. A graphing calculator is preferred, preferably a TI83+. Some students will be required to take DEVS 0330 before being allowed to take this course according to McMurry's academic placement policy. MATH 1311 or a higher-level mathematics course fulfills the General Education requirement for BA and BBA degrees. Consult requirements for your major to see if this course is required. (Fall, Spring) (TCCN MATH 1314)

**MATH 1312**

**Trigonometry (3-0)** Prerequisite: MATH 1311. Trigonometric functions, solutions of right and oblique triangles, trigonometric identities and equations, graphs of the trigonometric functions, and DeMoivre's theorem. A graphing calculator is required, preferably a TI83+. This course (or Precalculus) is a prerequisite for Calculus I if a student has not had trigonometry in high school. (As needed) (TCCN MATH 1316)

**MATH 1315**

**Contemporary Math (3-0)** This course focuses on conveying the power of mathematics by showing a variety of problems that can be modeled and solved by quantitative means. This course will give a broad sense of what Math is about and how it applies to everyday life. Some of the topics this course may include are Management Science, Statistics, The Science of Data, Voting and Social Choice, Fairness and Game Theory, The Digital Revolution, On size and Growth, and Your Money and Resources. Some students will be required to take DEVS 0330 before being allowed to take this course according to McMurry's academic policy. (Fall, Spring)

**MATH 1320**

**Pre-Calculus (3-0)** Prerequisites: A student must have a strong background in high school algebra and geometry. A study of linear, quadratic, polynomial, rational, exponential,

logarithmic, and trigonometric functions with their graphs and applications. Other topics include inverse functions, inequalities, systems of equations, solution of triangles, trigonometric identities, polar coordinates, and complex numbers. A graphing calculator is required, preferably a TI83+. This course is a prerequisite for Calculus I. (Fall) (TCCN MATH 2312)

**MATH 2315**

**Discrete Mathematics (3-0)** Prerequisites: MATH 1311 or permission of instructor. Topics covered include logic, mathematical proof techniques, sets, functions, relations on sets, number theory, counting techniques, recurrence relations, and graph theory. Required for the mathematics major, the computer science major, and the Computer Information Systems Concentration. (Fall and Spring) (TCCN MATH 2305)

**MATH 2421**

**Calculus I (3-1)** Prerequisites: MATH 1320 or MATH 1311 and 1312 or permission of instructor. An Introduction to the fundamental concepts, theorems, and applications of limits, continuity, differentiation, antidifferentiation, and integration of algebraic, logarithmic, exponential, and trigonometric functions. Required for the mathematics major, minor, computer science major, and physics major. (Fall, Spring) (TCCN MATH 2413)

**MATH 2322**

**Calculus II (3-0)** Prerequisite: MATH 2421. Inverse functions, inverse trigonometric functions, numerical approximation, l'Hopital's rule, sequences and series, analytical geometry, calculus using polar coordinates, volumes of solids of revolution, improper integrals, applications of the definite integral, techniques of integration including integration by parts, algebraic and trigonometric substitution, partial fractions. Required for the mathematics major, minor, and physics major. (Fall, Spring) (TCCN MATH 2314)

**MATH 2340**

**Linear Algebra (3-0)** Prerequisites: MATH 2421 or permission of instructor. An elementary introduction to basic concepts of Linear Algebra. Topics to be included are matrices, determinants linear transformations and vector spaces. Required for the mathematics major, minor, computer science major, and physics major. (Fall, Spring) (TCCN MATH 2318)

**MATH 3301**

**Multivariable Calculus (3-0)** Prerequisites: MATH 2322 and 2340. An introduction to calculus of several variables. Topics to be included are differentiation, partial derivatives, multivariable chain rule, directional derivatives, gradients, extrema of real valued functions, constrained extreme and LaGrange multipliers, divergence, curl, multiple integrals, line integrals, surface integrals, Green's Theorem, Stokes' Theorem, and Divergence Theorem. Optional for the mathematics major, and minor. Required for the physics major, and minor (Spring)

**MATH 3302**

**Intermediate Analysis (3-0)** Prerequisites: MATH 2315, 2322. Properties of the real numbers, continuous functions, differentiable functions, infinite series, and the topology of the real numbers. Required for the mathematics major and mathematics grades (8-12). Optional for the mathematics grades (4-8). (Spring)

**MATH 3321**

**College Geometry (3-0)** Prerequisites: MATH 2315 or 3302 or permission of instructor. A study of advanced Euclidean geometry and some of the theorems of non-Euclidean geometry, which is intended to provide a broader view of geometry for those who plan to teach high school mathematics. (Spring)

**MATH 3330**

**Teaching Elementary Math I EC-6 (3-0)** Prerequisites: A grade of "C" or better in MATH 1311 or higher. This course is also cross-listed as ECED 3330. This course introduces the prospec-

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tive teacher to concepts and developmentally appropriate instructional strategies for math taught at the EC through Grade 6 levels. Students will develop an understanding of fundamental elementary math concepts such as problem solving, the development of early number concepts and number sense, mastery of math facts, operations, fractions and decimals, and proportional reasoning through active and investigative projects and activities. (Fall, spring, summer), (Required for Math EC-6 certification, and Math grades 4-8 certification)

### MATH 3331

**Teaching Elementary Math II EC-6 (3-0)** Prerequisites: Grade of "C" or better in MATH 1311 or higher, and MATH 3330. This course is also cross-listed as ECED 3331. This course will introduce the prospective teacher to concepts and developmentally appropriate instructional strategies for math taught at the EC through Grade 6 levels. Students will develop understanding of fundamental elementary math concepts such as geometry and measurement, algebraic thinking, statistics and probability through active and investigative projects and activities. During long semesters students will tutor 5th grade students in math. (Spring, spring, summer), (Required for EC-6 certification)

### MATH 3332

**Theory of Secondary School Mathematics (3-0)** A course designed to aid the prospective secondary mathematics teacher in understanding the concepts of mathematics now being taught in the secondary schools. Manipulatives, cooperative learning investigations, projects, writing assignments, and technology are part of the syllabus. This course is open only to those who will be student teaching in secondary mathematics during the following spring or fall semester. (Fall)

### MATH 3341

**Ordinary Differential Equations (3-0)** Prerequisite: MATH 2322. A systematic treatment of the general theory of ordinary differential equations. Linear equations with constant coefficients, with variable coefficients, with regular singular points; existence and uniqueness of solutions to first order equations. Required for the physics major and optional for the mathematics major, and minor. (Fall)

### MATH 3351

**Statistics (3-0)** Prerequisites: MATH 1311 or permission of instructor. Introduction to statistics and probability theory, sampling techniques, classification of data, descriptive statistics, exploratory data analysis, probability, random variables, probability distributions, sampling distributions, confidence intervals, tests of hypothesis, correlation, linear regression, chi-square tests, and introduction to analysis of variance. Required for the computer science major, nursing major, and physics major. Optional for the mathematics major. (Fall, Spring)

### MATH 4301

**Advanced Analysis I (3-0)** Prerequisite: MATH 3302. A rigorous treatment of topics introduced in elementary calculus and more advanced topics basic to the study of real analysis. A required course for the Math major. (Fall odd years)

### MATH 4302

**Advanced Analysis II (3-0)** Prerequisite: MATH 4301 A continuation of Mathematics 4301. An optional course for the mathematics major, and minor. (Spring even years)

### MATH 4321

**Abstract Algebra I (3-0)** Prerequisites: MATH 2315 and 2340. A study of number theory, elementary theory of groups, rings, integral domains, and fields. A required course for the math, math-computer science major. (Fall even years)

### MATH 4322

**Abstract Algebra II (3-0)** Prerequisite: MATH 4321. A continuation of Mathematics 4321. An optional course for the mathematics major, and minor. (Spring odd years)

### MATH 4331

**Numerical Analysis With Computer Applications (3-0)** Prerequisites: CSC 1325 and MATH 2421 and 2340. Basic numerical methods for function evaluation, root finding, evaluation of integrals, simultaneous linear equations, and ordinary differential equations. (Also cross-listed as Computer Science 4331.) Required for the computer science major and optional for the mathematics major. (Spring)

### MATH 4388

**Internship In Mathematics** This is a pre-approved and supervised work experience for selected students. Registration is by permission only for students who have met all the qualifications. See instructor for details.

### MATH 4X95

**Independent Studies** A study program arranged between an advanced student and an instructor to provide intensive study in a particular area of interest. The course includes a definition of goals appropriate for the advanced student, ways of attaining those goals, a schedule for frequent consultation, and means of measuring progress.

### MATH 4X96\*

**Honors Tutorial** Prerequisites: 25 hours in mathematics and admission to departmental honors program. Designed for the honors student in mathematics, including study of particular topic, historical and background analysis, and research.

### MATH 4X97\*

**Senior Thesis Of Project** Prerequisites: 18 hours in mathematics, admission to departmental honors program, and approval of research project by department and Honors Committee. Designed for the honors student in mathematics. An independent research project on a topic approved by the mathematics faculty. Findings reported in writing and orally to the faculty of the department. Successful completion required for graduation with honors in mathematics.

### MATH XX99

**Special Topics** A course of study offered occasionally to groups of students to broaden departmental curriculum, to meet student demand, or to observe special events. May be repeated for credit when topics vary.

## MANAGEMENT

### MGMT 3310

**Principles Of Management (3-0)** Prerequisites: None. First course for students concentrating in management. Study of management principles applicable to various legal forms of organizations. Attention is given to the decision-making process, planning, organizing, leadership, motivation and the control process. (Fall, Spring)

### MGMT 3370

**Operations Management (3-0)** Prerequisites: MGMT 3310. Required for students concentrating in management. The study of management as applied to the operations function. Selected topics include: capacity, facilities management, project management, inventory management, scheduling, purchasing, technology. The development of current quantitative techniques will support the selected topics. (Fall)

### MGMT 3390

**Human Resources Management (3-0)** Prerequisite: MGMT 3310. Required for students concentrating in management. The study of topics include: staffing, compensation, training, the legal environment, safety and health, and performance appraisals. (Spring)

**MGMT 4310**

**Managing For Quality (3-0)** Prerequisites: MGMT 3310 and BA 3370 or equivalent statistics course. Required for students concentrating in management. An in-depth study of the major managerial philosophies and techniques of quality with a special emphasis on continuous improvement systems (TQM, CQI). Specific topics include quality design and implementation in manufacturing, government, service and academic organizations, economics of quality, human resource management for quality and the technical system including inspection and measurement, reliability and statistical process control. (Spring)

**MGMT 4330**

**Organizational Behavior / Interpersonal Relations (3-0)** Prerequisites: MGMT 3310 or approval of instructor. Required course in the management concentration. The study of individuals, groups, and organizations in the work environment, to include the structure, processes, and effects of each upon each other. Also, interpersonal relationships, emphasizing individual and group behavior and communication in the business setting, with further emphasis upon identifying and classifying individual behavior and personal styles of behavior are examined. Strategies for managing interpersonal relationships will be discussed and developed. (Fall)

**MGMT 4370**

**Marketing Management (3-0)** Prerequisites: MGMT 3310, MKTG 3370 or consent of instructor. Advanced elective for the management concentration. Study of the managerial direction and control of activities necessary to insure satisfaction of consumer needs. Consideration given to the relationships of the functions of marketing management in the creation of a formal organization structure. Also cross-listed as MKTG 4370. (Spring)

**MGMT 4X88**

**Internship (variable credit)** A pre-approved and supervised work experience designed to supplement academic training. Credit may be granted for one, two, or three semester hours. A student completing a dual concentration could be eligible for an internship in each concentration; however, a separate internship work experience would be required for each concentration. Interested students should discuss this course with the Director of Business Internships. (Spring, Fall)

**MGMT 4X95**

**Independent Studies (variable credit)** Prerequisites: Senior standing and consent of the Dean. A study program arranged between an advanced student and an instructor to provide intensive study in a particular area of interest. The course includes a definition of goals appropriate for the advanced student, ways of attaining those goals, a schedule for frequent consultation, and means of measuring progress. (By arrangement)

**MGMT XX99**

**Special Topics (variable credit)** Prerequisite: Permission of Instructor. A course of study offered occasionally to groups of students to broaden departmental curriculum, to meet student demand, or to observe special events. May be repeated for credit when topics vary. (By Arrangement)

**MARKETING****MKTG 3370**

**Principles Of Marketing (3-0)** Prerequisites: None. Required of Business majors and minors. Social and economic aspects of the principles and the methods underlying the distribution of commodities: the functions performed by the institutions and the organizations which move goods from the producer to the consumer. (Fall, Spring)

**MKTG 3380**

**Marketing Promotions (3-0)** Prerequisite: MKTG 3370. An overview of Advertising, Personal Selling, Public Relations and Sales Promotion as it relates to the Marketing Mix. The emphasis will be on the Promotional Mix as it is used to inform, persuade, and influence the consumer's purchase decision. (Fall)

**MKTG 4320**

**Marketing Channels (3-0)** Prerequisite: MKTG 3370. A study of the strategic implications for management in the selection of institutions for the movement of goods from their point of origin to their purchase by the ultimate consumer. This course will provide an overview of the functions necessary to the distribution of goods and the design of efficient and effective systems of distribution. (Fall)

**MKTG 4350**

**Consumer Behavior (3-0)** Prerequisites: MKTG 3370 or consent of instructor. An advanced study of marketing theories concerning consumer motivations and behaviors in the market place. Emphasis is placed on the behavior of consumers and of the major stimuli that influence them. (Spring)

**MKTG 4370**

**Marketing Management (3-0)** Prerequisites: MGMT 3310 and MKTG 3370, or consent of instructor. Study of the managerial direction and control of activities necessary to satisfaction of consumer needs. Consideration given to relationships of the functions of marketing management in the creation of a formal organization structure. Cross-listed as MGMT 4370. (Spring)

**MKTG 4380**

**Marketing Research (3-0)** Prerequisites: MKTG 3370 and BA 3370 or consent of the instructor. Required of all marketing majors. Study of the techniques used in determining sales potential, consumer purchasing power, the demand for industrial goods, sales forecasts, package and brand effectiveness, and the allocation of territories. Intensive investigation and critical analysis of current marketing and business problems. (Fall)

**MKTG 4X88**

**Internship (variable credit)** A pre-approved and supervised work experience designed to supplement academic training. Credit may be granted for one, two, or three semester hours. A student completing a dual concentration could be eligible for an internship in each concentration; however, a separate internship work experience would be required for each concentration. Interested students should discuss this course with the Director of Business Internships. (Spring, Fall)

**MKTG 4X95**

**Independent Studies (variable credit)** Prerequisites: Senior standing and consent of the Dean. A study program arranged between an advanced student and an instructor to provide intensive study in a particular area of interest. The course includes a definition of goals appropriate for the advanced student, ways of attaining these goals, a schedule for frequent consultation, and means of measuring progress. (By arrangement)

**MKTG XX99**

**Special Topics (variable credit)** Prerequisite: Permission of Instructor. A course of study offered occasionally to groups of students to broaden departmental curriculum, to meet student demand, or to observe special events. May be repeated for credit when topic varies. (By arrangement)

**MULTIMEDIA & GRAPHIC DESIGN****MMA 2310**

**Introduction to Multimedia Applications (3-0)** Students will become familiar with multimedia concepts, terminology, and

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software. Students will apply appropriate design principles and develop technical skills as they create video, audio, text, and digital images. All students will create and publish a digital portfolio. (Fall, Spring)

### MMA 2340

**Introduction to Digital Animation (3-0)** Prerequisite: MMA 2310. Students will develop animation skills as they use Flash to create multimedia and interactive web content. Students will use libraries, pre-existing and created symbols, and vector and raster based drawing tools to produce and manage project assets. (Spring)

### MMA 3310

**Digital Video Capture and Editing (3-0)** Prerequisites: None. Upper level elective for Theatre majors. An introduction to the techniques of capturing digital video through the use of video cameras and downloading for use in non-linear editing on a computer for a variety of video skills tests including basic editing, applying motion key-frames, titling, transitions, filters, voice-overs, compositing, and chroma-key. Students will create projects including interviews, commercials, music videos, live performances and documentaries. Students will learn how to compress video for use in various formats including video for web sites and digital video disks. Cross-listed as MMA 3310. (Fall and/or Spring as needed)

### MMA 3320

**HTML and Web Design (3-0)** Prerequisites: MMA 2310, ART 1310 strongly recommended. Students will use HTML, CSS, and graphic editing software to create increasingly complex web pages. Students will produce a well designed, functional web site for an external client as the final project. (Fall)

### MMA 4388

**Internship in Multimedia Applications (0-9)** Prerequisites: senior standing, MMA 3320, ART 1310, either ART 3330 or MMA 2340, and one other course required for the MMA minor/concentration in MMA. Student will work with a faculty member to design and develop multimedia projects for the university, the community, or local businesses. (Fall, Spring)

### MMA 3X96

**Honors Tutorial (variable credit)** Prerequisite: Permission of Instructor. Designed for the honors student in multimedia. The student will engage in research related to proposed work on the Honors Thesis. This course may be repeated for credit.

## MUSIC

### MUA 0111

**Marching Band** Prerequisite: Permission of instructor. The Marching Band consists of students from all areas of study including Music majors and non-majors. The band is primarily involved in appearances at football games on campus and in exhibitions across the state during the fall semester. Membership is open to any student with prior high school or college instrumental experience. (Fall)

### MUA 0112

**Wind Ensemble** Prerequisite: Permission of instructor. The McMurry Wind Ensemble consists of students from all areas of study including music majors and non-majors, and members are selected by competitive auditions at the beginning of each semester. The Wind Ensemble is primarily involved in concert performances of the core band repertoire. This ensemble meets multiple times per week and membership is open, by audition, to any student with prior high school or college instrumental experience. This course helps satisfy the ensemble participation components of the major and minor in music. (Fall, Spring)

### MUA 0113

**Symphonic Band** Prerequisite: Permission of instructor. The Symphonic Band consists of students from all areas of study including music majors and non-majors. The band is primarily involved in concert appearances on campus and at schools, churches, and community events during the spring semester. Membership is open to any student with prior high school or college instrumental experience. (Spring)

### MUA 0120

**Chanters** Prerequisite: Permission of Instructor. Chanters is the main touring choir of McMurry University. It consists of students from all areas and majors who enjoy performing demanding choral literature ranging from the traditional to the experimental. Performance opportunities include numerous local and area performances in churches, schools, and community concerts, and touring each semester is expected. Fall travel typically involves a retreat weekend and another weekend tour; the spring semester is an extended tour of several days or more. Membership is determined by audition. (Fall, Spring)

### MUA 0122

**McM Sounds** Prerequisite: Permission of Instructor. Sound is a small, select vocal ensemble that specializes in a cappella music. The signature repertoire of Sounds includes jazz and Americana literature, and multiple SATB parts are often encountered. This ensemble meets twice a week; an additional sectional rehearsal and memorization of all music is expected. McM Sounds has its own schedule of performances. Students are eligible for this group if they are a current member of Chanters and are selected through a competitive audition at the beginning of the fall semester.

### MUA 0135

**Percussion Ensemble** Prerequisite: Permission of instructor. The Percussion ensemble consists of percussion majors, non-majors, and education music majors playing secondary instruments. The ensemble performs a wide variety of standard and commissioned chamber percussion literature ranging from two to fifteen players. This ensemble meets several times per week and performs one concert on the McMurry campus each semester. Additional performances in public schools and for special events are also part of the ensemble activities. Individual preparation outside of the normal rehearsal schedule is expected. (Fall, Spring)

### MUA 0145

**Brass Ensemble** Prerequisite: Permission of instructor. Participation in the McMurry Brass Ensemble provides the student with experience in the performance of (a) brass instrument(s) in a chamber setting. Emphasis will be on ensemble blend, intonation, and balance. Performances may include on-campus recitals, brief recruiting tours, and competitions. (Fall, Spring)

### MUA 0150

**Jazz Ensemble** Prerequisite: Permission of instructor. The Jazz Band at McMurry University is a performing ensemble with at least one scheduled concert each semester. It is also an opportunity to learn more about the jazz genre and prepare the student for work in the professional music field. Emphasis will be placed on style and improvisation in both large and small group settings. (Fall, Spring)

### MUA 0155

**Opera Workshop** Opera Workshop students will sing and act a variety of repertoire via operatic scenes or full-length productions. Repertoire requirements are chosen at the discretion of the Instructor depending upon voice-types and instrumental accompaniment available each semester. Auditions may be required and advanced ear-training and sight-singing skills are expected for principal roles.



**MUA 1113**

**Class Piano I** Prerequisite: Admission as music major. Co-requisite: MTH 1130. Required of all music majors. This course introduces the student to the piano in a four semester sequence designed to prepare the student for a keyboard proficiency (MUS 2001). (Fall)

**MUA 1114**

**Class Piano II** Prerequisites: Admission as music major, MUA 1113. This course is the second in a four semester sequence designed to prepare the student for a keyboard proficiency (MUS 2001). (Spring)

**MUA 1115**

**Class Piano III** Prerequisites: Admission as music major, MUA 1114. This course is the third in a four semester sequence designed to prepare the student for a keyboard proficiency (MUS 2001). (Fall)

**MUA 1116**

**Class Piano IV** Prerequisites: Admission as music major, MUA 1115. Co-requisite: MUS 2001. This course is the fourth in a four semester sequence designed to prepare the student for a keyboard proficiency (MUS 2001). The student will perform a juried proficiency at the conclusion of this class. (Spring)

**MLH 2301**

**Music Appreciation (3-0)** An elective for non-music majors. This course is designed for the non-music major and is specifically non-technical. This is a music appreciation survey course designed to acquaint the student with the changes in concert offerings throughout the various periods of music history and to aid in the development of the critical listening skills needed to become an active audience participant in a performance setting. (Fall, Spring) (TCCN MUSI 1306)

**MLH 2380**

**Introduction to Music History (3-0)** Prerequisites: MTH 1340, admission as music major, or permission of instructor. Required of all music majors. A survey of Western musical history from its origins through 2000 CE with special emphasis on the foundational principles established prior to 1450 CE. Topics include major technical developments and trends as well as the works of the most important composers in the period studied. (Fall)

**MLH 3375**

**Western Music 1450-1800 (3-0)** Prerequisites: MLH 2380, admission as music major, or permission of instructor. Required of every music major. A comprehensive study of Western musical history from 1450-1800 CE. Topics include major technical developments and trends, the influence of extra-musical events and context, and the lives and works of important composers. (Spring)

**MLH 3380**

**Western Music 1800-present (3-0)** Prerequisite: MLH 2380 admission as music major, or permission of instructor. Required of all music majors. A comprehensive study of Western musical history from 1800 to the present, including important trends in American music and influences from non-Western Musical traditions. Topics include major technical developments and trends, the influence of extra-musical events and context, and the lives and works of important composers. (Fall)

**MLH 4X95**

**Independent Studies (variable credit)** An elective. A study program arranged between an advanced student and an instructor to provide intensive study in a particular area of interest. The course includes a definition of goals appropriate for the advanced student, ways of attaining those goals, a schedule for frequent consultation, and means of measuring progress. (As needed)

**MLH XX99**

**Special Topics (variable credit)** An elective. A course of study offered occasionally to groups of students to broaden departmental curriculum, to meet student demand, or to observe special events. May be repeated for credit when topics vary. (As needed)

**MTH 1130**

**Aural Skills I.** Prerequisites: Admission as music major, or permission of instructor. Corequisites: MTH 1330, and class piano/completed proficiency. A study of the fundamental elements of music theory as they apply to music reading and music notation. This class will focus primarily on the acquisition of aural recognition skills and music reading skills. Students will learn to write music as it is being played, and be able to perform music using solfege, rhythmic counting and rudimentary conducting skills. (Fall)

**MTH 1140**

**Aural Skills II.** Prerequisites: MTH 1130 and class piano/completed proficiency, admission as music major, or permission of instructor. A continued study of the fundamental elements of music theory as they apply to music reading and music notation. This class will focus primarily on the acquisition of aural recognition skills and music reading skills. Students will learn to write music as it is being played, and be able to perform music using solfege, rhythmic counting and rudimentary conducting skills. (Spring)

**MTH 1330**

**Theory I (3-2)** Prerequisites: Admission as music major, or permission of instructor. Corequisites: MTH 1130 and class piano/completed proficiency. Required of all music majors and minors. A study of the fundamental elements of music with an emphasis on developing written music recognition skills. An examination of notation, scales and intervals, as well as melodic and rhythmic structure. (Fall)

**MTH 1340**

**Theory II (3-2)** Prerequisite: MTH 1330, admission as music major, or permission of instructor. Corequisite: class piano/completed proficiency. Required of all music majors and minors. A continued examination of traditional, common practice harmony, including part-writing practices of the 18th and 19th centuries. (Spring)

**MTH 3130**

**Aural Skills III.** Prerequisites: MTH 1140, admission as music major, or permission of instructor. Corequisite: class piano/completed proficiency. Required of all music majors. The continued study of expanded 18th C part-writing in dictation, with a further emphasis on the acquisition of aural recognition skills and music reading skills. Students will refine ability to write music as it is being played, and be able to perform music using solfege, rhythmic counting and rudimentary conducting skills. (Fall)

**MTH 3140**

**Aural Skills IV.** Prerequisites: MTH 3130, admission as music major, or permission of instructor. Corequisite: class piano/completed proficiency. Required of all music majors. The continued study of expanded 18th C part-writing in dictation, with an added emphasis on recognition skills and music reading skills in examples of advanced harmony, chromatic harmony and multi-meter. (Spring)

**MTH 3330**

**Theory III (3-2)** Prerequisites: MTH 1340, admission as music major, or permission of instructor. Corequisite: class piano/completed proficiency. Required of all music majors. A study of the harmonic practices of non-traditional music, including music predating the common practice period as well as music of the 20th century (Fall)

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### MTH 3340

**Theory IV (3-2)** Prerequisites: M TH 3330, admission as music major, or permission of instructor. Corequisite: class piano/completed proficiency. Required of all music majors. Practical application of the student's understanding of fundamentals, harmony, and advanced harmony to the analysis of music. A study of terminology and techniques of Music Theory in a practical application of analysis. (Spring)

### MTH 4210

**Forms and Styles (2-1)** Prerequisites: M TH 3340, admission as music major, or permission of instructor. An examination of small forms and combination forms, and their various applications in different style periods of music. (Spring odd years)

### MTH 4250

**Orchestration and Arranging (2-1)** Prerequisites: M TH 3340, admission as music major, or permission of instructor. A study of the characteristics, strengths, and limitations of various musical instruments as well as the voice. Application of this study in the transcription of Music from one media to another. The use of a computer notation program will be utilized. (Spring even years)

### MTH 4X95

**Independent Studies (variable credit)** An elective. A study program arranged between an advanced student and an instructor to provide intensive study in a particular area of interest. The course includes a definition of goals appropriate for the advanced student, ways of attaining those goals, a schedule for frequent consultation, and means of measuring progress. (As needed.)

### MUED 1305

**Introduction to Music Education (3-0)** Prerequisites: Admission as music major, or permission of instructor. This course provides a foundation in basic principles of music teaching. Fundamentals of music lesson planning, assessment, error detection, complete teaching cycles, and corrective feedback are developed, with an emphasis on utilizing these skills to effectively address the Texas Essential Knowledge and Skills and National Standards for Music Education in a music classroom. This course also provides training for using microcomputer applications involving the following: music notation software, marching band show design software, and databases. Students will become familiar with these software packages and learn how they can be integrated into a public school music program. (Fall)

### MUED 3113

**String Techniques and Methods (1-1)** Prerequisites: M TH 1340, admission as music major, or permission of instructor. A study of the principles of playing and teaching stringed instruments, with a special emphasis on the opportunities and problems of public school programs. Offered through intercollegiate courses. Fall semester recommended. (Fall)

### MUED 3114

**Flute and Saxophone Methods. (1-1)** Prerequisites: Admission as music major, or permission of instructor. The basic principles involved in playing flute and saxophone, with an emphasis on pedagogy. Course involves observations of beginning woodwind classes in local schools, writing lesson plans, single reed adjustment, embouchure development, fingerings for each instrument, as well as graded literature for each instrument. (Spring even years)

### MUED 3115

**Clarinet and Double Reed Methods. (1-1)** Prerequisites: Admission as music major, or permission of instructor. The basic principles involved in playing clarinet, oboe, and bassoon, with an emphasis on pedagogy. Course involves obser-

variations of beginning woodwind classes in local schools, writing lessons plans, single reed adjustment, embouchure development, fingerings for each instrument, as well as graded literature for each instrument. (Spring odd years)

### MUED 3116

**High Brass Methods. (1-1)** Prerequisites: Admission as music major, or permission of instructor. A study of the principles involving playing and teaching high brass instruments, including trumpet and horn. (Fall even years)

### MUED 3117

**Low Brass Methods (1-1)** Prerequisites: Admission as music major, or permission of instructor. A study of the principles involving playing and teaching low brass instruments, including trombone, euphonium, and tuba. (Fall odd years)

### MUED 3118

**Percussion Techniques and Methods I (1-1)** Prerequisites: admission as music major, or permission of instructor. A study of the basic principles involved in playing and teaching percussion instruments, with a special emphasis on exploring the wide variety of percussion techniques. (Spring even years)

### MUED 3119

**Percussion Techniques and Methods II (1-1).** Prerequisite: admission as music major, or permission of instructor. A study of the basic principles involved in playing and teaching world, drum set, and marching percussion, with a special emphasis on exploring the wide variety of percussion techniques. (Spring odd years)

### MUED 3220

**Fundamentals of Conducting (1-1)** Prerequisites: Music Theory 1340, admission as music major, or permission of instructor. A study of the fundamental principles of conducting music, including score reading, score preparation, baton techniques, and performance group motivation. (Spring)

### MUED 3221

**Advanced Instrumental Conducting (1-1)** Prerequisites: MUED 3220, admission as music major, or permission of instructor. Required by all Instrumental Music Education majors. A study of the advanced skills of conducting, including knowledge of literature, understanding of programming, understanding of rehearsal techniques found successful at a variety of grade levels, group motivation, score reading, advanced baton/hand techniques, professional organizations, competitions and administrative details. (Fall)

### MUED 3222

**Advanced Choral Conducting. (1-1)** Prerequisites: MUED 3220, admission as music major, or permission of instructor. Required of all Choral Music Education majors. A study of the advanced skills of conducting, including knowledge of literature, understanding of programming, understanding of rehearsal techniques found successful at a variety of grade levels, group motivation, score reading, advanced baton/hand techniques, professional organizations, competitions and administrative details specific to directing a choral education program. (Fall)

### MUED 3230

**Survey of Elementary Materials (2-0)** Prerequisites: MUED 1305, admission as music major, or permission of instructor. A study of the general music methods for primary and intermediate grade levels. This course emphasizes the practical application of the student's knowledge of music as applied to lower grade levels. Time will be spent also applying educational rubrics of the Texas Essential Knowledge and Skills and National Standards for Music Education into lesson planning. (Spring)

**MUED 3235**

**Vocal Pedagogy (1-1)** Prerequisites: MTH 1330, MTH 1340, admission as music major, or permission of instructor. A study of the methods of teaching voice, including areas of anatomy, acoustics, literature and psychology of singing. Will include a survey of the history of vocal production from 1600 to present; special emphasis given to vocal training methods and styles currently in use. (Spring)

**MUED 3250**

**Marching and Jazz Methods (1-1)** Prerequisites: MUED 1305, admission as music major, or permission of instructor. This course examines basic pedagogical principles for jazz and marching band. Students will study core repertoire for big band and jazz combo ensembles, concepts of appropriate musical style, and the teaching of basic improvisation. Students will also study marching show design principles, computer-assisted show design techniques, and basic pedagogy for teaching marching fundamentals and managing a colorguard. (Fall even years)

**MUED 3291**

**Singer's Diction I (1-1)** Prerequisites: MTH 1340, admission as music major, or permission of instructor. A study of the principles of appropriate singing diction. Specific study of the International Phonetic Alphabet (IPA) will precede an introduction to English, Italian and Latin languages. Students will be required to study and perform art songs, operatic or oratorio literature from the English, Italian and Latin vocal repertoire. (Fall)

**MUED 3292**

**Singer's Diction II (1-1).** Prerequisites: MTH 1340, admission as music major, or permission of instructor. A study of the principles of appropriate singing diction. Specific study of the International Phonetic Alphabet (IPA) will precede an introduction to French and German languages. Students will be required to study and perform art songs, operatic or oratorio literature from the French and German vocal repertoire. (Spring)

**MUED 4200**

**Music Teaching Practicum I (1-1)** Prerequisites: MUED 1305, 3220, admission as music major, or permission of instructor. This course builds upon the student's prior training in music pedagogy and conducting. Advanced conducting techniques and psychological foundations for teaching instrumental music are explored to develop effective rehearsal skills for the ensemble setting. Appropriate methods and materials are studied, with an emphasis on addressing the Texas Essential Knowledge and Skills and National Standards for Music Education, and administrative facets of directing a music program are considered. (Spring)

**MUED 4210**

**Music Teaching Practicum II (1-1)** Prerequisites: MUED 1305, 3220, admission as music major, or permission of instructor. This course builds upon the student's prior training in music pedagogy and conducting. Advanced conducting techniques and psychological foundations for teaching choral music are explored to develop effective rehearsal skills for the ensemble setting. Appropriate methods and materials are studied, with an emphasis on addressing the Texas Essential Knowledge and Skills and National Standards for Music Education, and administrative facets of directing a music program are considered. (Fall)

**MUED 4X95**

**Independent Studies (variable credit)** An elective. A study program arranged between an advanced student and an instructor to provide intensive study in a particular area of interest. The course includes a definition of goals appropriate for the advanced student, ways of attaining those goals, a schedule for frequent consultation, and a means of measuring progress. (As needed)

**MUED XX99**

**Special Topics (variable credit)** An elective. A course of study offered occasionally to groups of students to broaden departmental curriculum, to meet student demand, or to observe special events. May be repeated for credit when topics vary. (As needed)

**MUS 1000**

**Recital Attendance** This course is required for all music majors and minors. Music majors are required to enroll in eight semesters. Music Education majors are exempt from this requirement during their semester of student teaching. Music minors are required to enroll in four semesters. A required list of recitals to attend will be published each semester. This course is pass/fail. (Fall, Spring)

**MUS 2000**

**Applied Proficiency** Prerequisites: Admission as music major, or permission of instructor. This course is required of all music majors. The student will be given two opportunities to pass this proficiency. Failure after two attempts will result in withdrawal of music major status. (Fall, Spring)

**MUS 2001**

**Keyboard Proficiency** This course is required of all music majors. Students enroll in it concurrently with their fourth semester of class piano, MUA 1116. Students not passing the course must repeat enrollment in MUA 1116 until the requirements of the keyboard proficiency are met. This course is pass/fail. (Fall, Spring)

**MUS 4000**

**Senior Recital** Prerequisites: Admission as music major, or permission of instructor. See # 8 on page 106.

**NURSING****NURS 2301**

**Introduction to Nursing Skills (3-0)** This course introduces areas of learning vital to nursing practice. These are fundamental nursing concepts and practices related to the holistic delivery of nursing care. Included are effective communication, client teaching, basic assessment skills, nutritional support, safety principles, and beginning proficiency in selected nursing skills. Skills include, but are not limited to, vital sign measurement, hygienic care, standard precaution application and medical terminology usage.

**NURS 3323**

**Pharmacology (3-0)** Discussion of the fundamental principles of pharmacology and investigation of the major classifications of drugs with emphasis on pharmaco-therapeutic actions and nursing implications will be presented. Previously learned skills and concepts as well as prerequisite science courses are integrated into the discussions. Principles of safe medication administration will be integrated throughout the course.

**NURS 3324**

**Dimensions of Nursing (3-0)** This course will explore the nurse's professional roles and values, and the interaction of the nurse with the health care delivery system. The historical development of the nursing profession will be analyzed. Important concepts integrated throughout the course are critical thinking, problem solving, legal/ethical principles, decision-making models and the contribution of nursing theory to practice. Medical terminology will be introduced.

**NURS 3335**

**Mental Health Nursing (2-1)** Physiological and psychological aspects of mental health related to acute and chronic health problems across the lifespan will be examined. The role of the

## Course Descriptions - Undergraduate

professional nurse in health promotion and illness prevention are key components. Emphasis is placed on the mental health milieu that exists within a community setting.

### NURS 3410

**Pathophysiology (4-0)** Scientific concepts related to pathophysiological process: genetic, cellular, biochemical, and disease processes in specific body systems will be discussed.

### NURS 3421

**Health Assessment (3-1)** Assessment of the holistic person as an individual and a member of groups, families, aggregates, communities, and society (IFACS) is emphasized. The role of the nurse in health promotion throughout the life cycle is demonstrated by identifying normal findings. Emphasis will be placed on acquiring skills to record client histories, to perform physical assessment, and to communicate specific findings.

### NURS 3622

**Nursing Process I (3-3)** Students are provided with basic knowledge of concepts inherent to the practice of professional nursing and in the care of all clients. The course lays the foundation for nursing practice based on current nursing theories, theoretical knowledge, concepts, and clinical skills. Theory is applied to practice in a variety of settings. (Fall)

### NURS 3836

**Nursing Process II (5-3)** Students are introduced to obstetrical and pediatric nursing concepts and care. The course focuses on normal and abnormal adaptations in the childbearing process and on growth and development of the child and conditions and illness that affect child health. (Spring)

### NURS 4335

**Community and Public Health Nursing (2-1)** The focus of this introductory course is the presentation of key concepts, theories, and issues relevant to practice as a public health/community health nurse. The course will explore the major concepts and conceptual issues underlying the specialty of community oriented nursing, including the dimensions of public health and community health nursing. The course is intended to assist students in clarifying conceptual issues in the specialty and in beginning to develop positions on critical health care issues including access to care, disparities, vulnerable populations, health promotion across the lifespan, and the implementation and progress of Healthy People 2010 National Health Objectives.

### NURS 4343

**Nursing Theories and Research (3-0)** Nursing Theories and Research provides a forum for the study of professional nursing related needs, through broadening the students' ability to read, interpret, and integrate research information and theoretical models into practice. It is intended to introduce students, as beginning practitioners, to research and theory in nursing.

### NURS 4352

**Leadership and Management (3-0)** Leadership and management principles of professional nursing provide the student opportunities to synthesize and integrate learning experiences with contemporary practice. Health care as it is delivered in the United States today will be examined by considering the organizational socio-political, economic, legal, and cultural context on which health care delivery is based for the practicing profession.

### NURS 4360

**Professional Nursing (3-0)** The course is designed for the RN student who is seeking a baccalaureate degree. This course is designed to promote transition to roles that enhance professional practice and growth built on prior nursing education and experience.

### NURS 4370

**Lab and Diagnostics Lab and diagnostics studies (3-0) Elective.**

Rationale for studies, expected and abnormal findings, clinical implications, procedures involved in pre-test/post-test care of the client undergoing studies.

### NURS 4371

**Health Care Missions (3-0) Elective.** This course will provide the student a foundation for health care strategies that will be used to serve and evangelize in cross cultural environments. The student will be introduced to strategies for learning culture and language as well as communicating and educating cross culturally.

### NURS 4372

**Perioperative Nursing (3-0) Elective.** The focus of the course is care of the client during the perioperative period and the nursing responsibilities inherent in caring for this unique client. Clinical experience includes activities in the preoperative, intraoperative, and postoperative stages. Legal and ethical concerns during the perioperative period will also be explored.

### NURS 4373

**Care of the Terminally Ill (3-0) Elective.** This course examines the components of providing holistic care for the dying client. Emphasis is placed on providing a comfortable environment for the client, including pain management and management of other symptoms. Facilitating communication among client, family, and members of the interdisciplinary health care team is an essential part of providing quality care at the end of life. Psychosocial and spiritual needs of the dying client are discussed.

### NURS 4453

**Professional Nursing Practicum (0-4)** Comprehensive clinical experience for the student to assist in the transition from student to professional nurse will be provided. Students will have opportunities to synthesize and integrate previous learning and apply it to clinical practice. The student will work directly with a professional nurse during the clinical experience in a self-directed independent position. This course is pass/fail.

### NURS 4651

**Nursing Process IV (4-2)** Examination of physiological and psychological adaptation to responses dealing with stressors/stimuli related to acute and critical health problems. Emphasis is on clients experiencing critical physiological deviations. (Spring)

### NURS 4661

**Evidenced Based Practice I (4-2)** Examination of physiological and psychological adaptation of responses dealing with stressor/stimuli related to acute and serious health problems. Emphasis is on clients who experience physiological deviations.

### NURS 4662

**Evidenced Based Practice II (4-2)** Examination of physiological and psychological adaptation responses to serious health problems with emphasis critical physiological deviations with a special focus on older adults

### NURS 4846

**Nursing Process III (5-3)** Examination of physiological and psychological adaptation to responses dealing with stressors/stimuli related to acute and serious health problems. Emphasis is on clients who experience physiological deviation. (Fall)

## PHILOSOPHY

### PHIL 2350

**Introduction to Philosophy (3-0)** Prerequisites: None. For all students. Satisfies 3 hours general education requirement

for Critical Reasoning. This course acquaints students with the fundamental problems of philosophy and the cardinal issues confronted in major areas of philosophy, aimed at giving historical background in philosophical, scientific, and religious traditions as well as providing resources for understanding issues and problems of contemporary society. (Fall, Spring) (TCCN PHIL 1301)

**PHIL 2360**

**Logic (3-0)** Prerequisites: None. Satisfies 3 hours general education requirement for Critical Reasoning. This course analyzes the principles of sound reasoning with regard to the development of clear thought and articulate expression. The course provides a basic introduction to informal and formal logic; traditional and symbolic deductive logic; the logic of the sciences and the philosophy of language. (As needed)

**PHIL 3300**

**History of Ancient Philosophy (3-0)** Prerequisites: PHIL 2350 or permission of instructor. For all students. May count as advanced elective credit. This course examines the development of the basic problems and perspectives of Ancient Greek and Roman philosophical thought, with major attention to the Presocratic period; Socrates, Plato, and Aristotle; Epicureanism, Stoicism, Skepticism, and Neoplatonism (As needed)

**PHIL 3305**

**Medieval Philosophy (3-0)** Prerequisites: PHIL 2350 or permission of instructor. For upper level students. May count as advanced elective credit. This course examines the main problems, influences and major thinkers of the Middle Ages; the origins of Christian philosophy, its development through the early and later Middle Ages; Scholastic philosophy and its critics. (Fall even years)

**PHIL 3310**

**History of Modern Philosophy (3-0)** Prerequisites: PHIL 2350 or permission of instructor. For upper level. May count as advanced elective credit. This course examines the main developments in modern philosophy from the Renaissance and Seventeenth Century to the post-Hegelian philosophies of the Nineteenth Century, showing the relation of philosophical theories to the political, economic, religious, and cultural aspects of modern society. (Spring even years)

**PHIL 3325**

**Symbolic Logic (3-0)** Prerequisites: None. For upper level students. May count as advanced elective credit. The course is an introduction to the concepts, methods and theory of Modern Logic, with emphasis on acquiring basic skills for analytical reasoning and expression, proofs of validity, and understanding the nature and application of formalized logical systems. (Spring even years)

**PHIL 3330**

**Topics in Ethics (3-0)** Prerequisites: PHIL 2350 or permission of instructor. For upper level students. May count as advanced elective credit. Classical and modern theories of value and morality posing alternative views of responsibilities to self and society; designed to assist in application of ethical principles in contemporary society. (Fall odd years)

**PHIL 3340**

**Great Books in Political Philosophy (3-0)** Prerequisite: PHIL 2350 or permission of instructor. A study of the nature and foundation for political society and the state, basis for political obligation, and rights of the State vs. those of individuals. Representative figures include Nozick, Rawls, Rousseau, Hegel, and Marx.

**PHIL 3341**

**Classical German Political Philosophy (3-0)** Prerequisites: PHIL 2350 or permission of instructor. This course traces the development of classical German political philosophy from Kant

through Fichte, the romantics, and Hegel to Marx. Selected topics include: classical liberalism vs. communitarianism, the nature of political obligation, and rights. (As needed)

**PHIL 3345**

**Philosophy of Mind (3-0)** Prerequisites: PHIL 2350 or permission of instructor. A study of the mind-body problem with particular attention to materialism, the nature of consciousness, qualia, and artificial intelligence. Or, a study of the nature of human action with special attention to intentionality, practical rationality, and moral psychology. Course may be repeated for credit with permission of instructor. (As needed)

**PHIL 4300**

**Religious Epistemology (3-0)** Prerequisites: PHIL 2350, a 3000 level PHIL course, or permission of instructor. A study of the nature and foundation of knowledge and the ultimate nature of reality. Issues include skepticism and justification, internalist vs. externalist accounts of knowledge, the status of universals, free will vs. determinism, and realism vs. anti-realism. Designed primarily for philosophy minors or students with advanced standing in philosophy. Course may be repeated for credit with permission of instructor. (As needed)

**PHIL 4310**

**Contemporary Philosophy (3-0)** Prerequisites: PHIL 2350, a 3000 level PHIL course, or permission of instructor. For upper level students. This course covers the main philosophical movements and individual thinkers of the 20th century; including idealism, realism, pragmatism, logical positivism, scientific empiricism, phenomenology, linguistic analysis, existentialism, deconstruction and philosophical hermeneutics. (As needed)

**PHIL 4320**

**Philosophy of Religion (3-0)** Prerequisites: None. Cross-Listed in Religion. For upper level students. May be counted for advanced Religion credit. This course examines the conceptual basis and logic of religious commitment. Emphasis on the varieties of theism together with appraisals of competing views, rational grounds for belief in God, the problem of evil, and human destiny. Issues will be related to contemporary theology. (As needed)

**PHIL 4X95**

**Independent Studies (variable credit)** For minors. This is a study program arranged between an advanced student and an instructor to provide intensive study in a particular area of interest. The course includes a definition of goals appropriate for the advanced student, ways of attaining those goals, a schedule for frequent consultation, and means of measuring progress. (As needed)

**PHIL 4X96\***

**Honors Tutorial (variable credit)** Prerequisites: 12 hours in philosophy and admission to departmental honors program. The course concentrates on a major area or complex of problems in philosophy, draws on relevant contemporary and classical sources, and will cultivate the student's ability to think and write philosophically. The course requires weekly conferences with the instructor. (As needed)

**PHIL 4X97\***

**Senior Thesis (variable credit)** Prerequisites: 12 hours in philosophy, admission to departmental honors program and approval of thesis project by department and honors committee. Findings will be reported in writing and orally to an appropriate forum. (As needed)

**PHIL 4398**

**Senior Seminar (3-0)** Prerequisites: 15 hours of philosophy. For honors students, majors or minors or advanced elective credit. This course concentrates on one, two, or three of the

## Course Descriptions - Undergraduate

classic philosophers or philosophical problems. Students taking the course for honors credit must enroll concurrently in PHIL 4X97\*, Senior Thesis, and complete the thesis as part of this course. (As needed)

### PHIL XX99

**Special Topics (variable credit)** For minors. This course is offered occasionally to groups of students to broaden departmental curricula, to meet student demand, or to observe special events. May be repeated for credit when topics vary. (As needed)

## PHYSICS

### PHYS 1400

**Introduction to Physics (3-3)** Prerequisites: None. This course is intended for non-science majors. Optional course for general education requirements in Natural Science. This is a one-semester course covering the basic principles of classical and modern physics. No mathematics preparation beyond high school algebra and geometry is assumed. (Fall or Spring) (TCCN PHYS 1410)

### PHYS 1401

**Introduction to Astronomy (3-3)** Prerequisites: None. This course is intended for non-science majors. Optional course for general education requirements in Natural Science. This is a survey course covering the solar system, stars, and galaxies including modern cosmology. No mathematics preparation beyond high school algebra and geometry is assumed. (Fall or Spring) (TCCN PHYS 1411)

### PHYS 1410

**General Physics I (3-3)** Prerequisites: MATH 1311 and working knowledge of trigonometry. This is the first part of a two-course series intended for students in the fields of natural science or mathematics and for those following the pre-medical curricula. This course covers the fundamentals of mechanics, including motion, vectors, forces, momentum, rotational motion, gravity, mechanical energy, and possibly sound. Emphasis is placed on the concepts and problem solving techniques of physics. (Fall) (TCCN PHYS 1401)

### PHYS 1420

**General Physics II (3-3)** Prerequisite: PHYS 1410. This is the second part of a two-course series intended for students in the fields of natural science or mathematics and for those following the pre-medical curricula. This course covers the fundamentals of sound, heat, thermodynamics, electrostatics, direct current circuits, magnetostatics, light, and some optics. Emphasis is placed on the concepts and problem solving techniques of physics. (Spring) (TCCN PHYS 1402)

### PHYS 2310

**Automated Experimental Measurements (2-3).** Prerequisites: PHYS2520 or instructor's permission. This is a required course for Physics majors. This course serves as an introduction to electronic lab equipment and use thereof for automated experiment, an important tool of modern scientific exploration. Through the use of LabVIEW, a graphical programming engine with roots in C++, students will learn how to program in LabVIEW, use analog and digital input/output, control and read transducers; develop systems for motion control, and interfacing with high level electronic devices. This course is a transformation from general physics knowledge to upper level physics. Students entering their junior year of physics curriculum will find this course useful for improving their research skills before they enter the upper division courses requiring experimentation. (Fall as needed)

### PHYS 2510

**University Physics I (4-3)** Corequisite: MATH 2421. This is the first part of a two-part series intended for Physics majors and

those intending to pursue an engineering degree. It is also recommended for Math, the sciences, and Computer Science majors who are comfortable with differential calculus. This course covers the fundamentals of mechanics: motion, vectors, forces, momentum, rotational motion, gravity, mechanical energy, and possibly sound. Emphasis is placed on calculus-based problem solving skills. (Fall)

### PHYS 2520

**University Physics II (4-3)** Prerequisites: PHYS 2510, MATH 2421. Corequisite MATH 2322. This is the second part of a two-part series intended for physics majors and those intending to pursue an engineering degree. It is also recommended for Math, the sciences, and Computer Science majors who are comfortable with differential and integral calculus. This course covers the fundamentals of sound, heat, thermodynamics, electrostatics, DC circuits, magnetostatics, light, and some optics. Emphasis is placed on calculus-based problem solving skills. (Spring)

### PHYS 3270

**Advanced Physics Laboratory (1-3)** Prerequisite: PHYS 3300. This is a required course for physics majors. This course is intended to advance the student's practice and experience in physical measurements and serve as an introduction to the techniques and instruments used in experimental research in optics, atomic and nuclear physics, and astrophysics. This is an experience-enriched course. (Spring)

### PHYS 3300

**Introduction to Modern Physics (3-0)** Prerequisite: PHYS 2520. This is a required course for physics majors. This course is intended to introduce the student to a wide range of areas under the heading of Modern Physics. These areas include relativity theory, atomic and nuclear physics, quantum mechanics, and elementary particle physics. (Fall)

### PHYS 3315

**Engineering Statics (3-0)** Prerequisites PHYS 2510, MATH 2322. This course is an advanced elective for physics majors who intend to attend an engineering program. The course covers vector analysis of force systems, resultants, equilibrium, distributed forces, moments, trusses and frames, and friction. (Alternate Falls)

### PHYS 3325

**Engineering Dynamics (3-0)** Prerequisite PHYS 3315. This course is an advanced elective for physics majors who intend to attend an engineering program. The course covers vector analysis of particles and rigid bodies using Newton's Laws, impulse-momentum, and work-energy. (Alternate Spring)

### PHYS 3350

**Electronics (2-3)** Prerequisite: PHYS 2520. This course will introduce students to the basic electronic devices which comprise most electronic equipment. Topics include general circuitry, diodes, transistors, oscilloscopes, power supplies, and a touch of digital electronic devices such as op-amps and logic gates. Laboratory exercises are an integral part of the course. (Spring)

### PHYS 3352

**Digital Electronics (2-1)** This course is required for electrical engineering focus students, but serves as an elective for other physics students. This course focuses on modern, digital electronics and integrated circuits, microprocessors, Boolean logic, and analog to digital devices. In lab, students will use modern test stand equipment and software to explore different integrated circuits and microprocessors. (Alternate Falls)

**PHYS 3385**

**Advanced Modern Physics (3-0)** Prerequisites: PHYS 3300, MATH 3341. This course serves as an advanced elective for physics majors intending to go on to graduate school in physics. The course covers special relativity beyond *Introduction to Modern Physics* and a little general relativity as well as molecular physics, nuclear physics, nuclear reactions, particle physics, and possible astrophysics or solid state physics. (As needed)

**PHYS 4175**

**Physics Research Proposals (1-0)** Prerequisite: Students must have completed the equivalent of a physics minor. This course is a requirement for the major. Students will use this semester to investigate the feasibility of a research project of their choice. The project may be designed for an individual or for a team. The course consists of weekly meetings to discuss the progress and possible refinement of the project. The result of the course will be a feasibility report, budget proposal, project schedule, and formal presentation to the Society of Physics Students. If the project is determined to be feasible, including budget, it satisfies the prerequisite for the Senior Capstone course. (Fall, Spring)

**PHYS 4275**

**Physics Research Project (1-3)** Prerequisite: Completion of PHYS 4175 with a feasible project, budget, and research plan. This course is a requirement for the major and serves as the *Capstone Experience* for the major. Using the project plan developed in PHYS 4175, students will use this semester to carry out the research previously proposed. The project may be performed by an individual or by a team as determined by the proposal. The course consists of weekly meetings to discuss the progress and possible refinement of the project as well as a regular lab schedule during which the work is done. The result of the course will be a written report (suitable for journal submission) and formal presentation to the Society of Physics Students (or at a conference). (Fall, Spring)

**PHYS 4300**

**Classical Mechanics (3-0)** Prerequisites: PHYS 2520, MATH 3341. This is a required course for Physics majors. The first of two parts, this course is an in-depth study of kinematics, dynamics, central force motion, harmonic motion, and related areas of Mechanics. A strong mathematical focus, using Lagrangian and Hamiltonian formalism, is taken. (Alternate Falls)

**PHYS 4302**

**Classical Mechanics II (3-0)** Prerequisites: PHYS 4300, MATH 2340; Corequisites: MATH 3301. This course serves as an advanced elective for physics majors. The second of two parts, this course applies the methods of Classical Mechanics developed in PHYS 4300 towards complicated oscillatory systems, the motion of rigid bodies, and related areas of Mechanics. Mechanics of continuous media may be considered. (Alternate Springs)

**PHYS 4310**

**Electricity & Magnetism (3-0)** Prerequisites: PHYS 2520, MATH 3301. Corequisite MATH 3341. This is a required course for physics majors. The first of two parts, this course will cover such topics as vector analysis, electrostatics, Gauss' Law, multipoles, BVP, dielectrics, and steady currents. (Alternate Falls)

**PHYS 4312**

**Electricity & Magnetism II (3-0)** Prerequisite: PHYS 4310. This course is required for physics students with electric engineering focus and serves as advanced elective for other physics

students. The second of two parts, this course will cover such topics as magnetostatics, Ampere's law, Faraday's Law, Maxwell's equations, and radiation. (Alternate Springs)

**PHYS 4330**

**Quantum Mechanics (3-0)** Prerequisites: PHYS 4300, MATH 3301. Corequisite MATH 3351. This course is required for physics and electrical engineering focus students, but serves as an advanced elective for students with civil/mechanical focus. This course offers an introduction to quantum mechanics, including such topics as wave mechanics, Schrodinger's equation and its applications, barrier problems, harmonic oscillators, angular momentum, and applications to atomic and molecular processes. (Alternate Springs)

**PHYS 4335**

**Solar System Physics (3-0)** Corequisite: PHYS 3300. This course is an advanced elective for physics majors. Topics include the formation of the solar system, Kepler's Laws, the planets, and an introduction to plasma physics. Satellite and telescope instrumentation will also be discussed. (As needed)

**PHYS 4360**

**Thermodynamics (3-0)** Prerequisite: PHYS 3300; Corequisite: MATH 3301. This course is required for physics and civil/mechanical engineering focus students, but serves as an advanced elective for students with electrical engineering focus. The first of two parts, this course will concentrate on fundamental principles of classical thermodynamics. It will cover such topics as three laws of classical thermodynamics, thermodynamic potentials, thermodynamic equilibrium and phase transitions, transport, and kinetic phenomena. Different applications of these principles towards engines and various electric, magnetic, and chemical processes will be considered. (Alternate Springs)

**PHYS 4362**

**Thermodynamics II (3-0)** Prerequisite: PHYS 4360, Corequisites: PHYS 4300, MATH 3351. This course serves as an advanced elective for physics majors. The second of two parts, this course will concentrate on fundamental principles of statistical thermodynamics. It will show how these principles are related to classical thermodynamics and classical mechanics. It will consider application of those principles towards simple microscopic models of gases, liquids, and solids. More in-depth study of phase transitions and physical kinetics is also possible. (Alternate Falls)

**PHYS 4385**

**Solid State Physics (3-0)** Prerequisites: PHYS 3300 and any two 4000-level physics courses or permission of instructor. This course serves as an advanced elective for physics majors. The course will cover the physics of materials in the solid state, such as crystal properties, electron behavior, lattice behavior, energy bands, semiconductors and other materials, and simple electronic devices. (As needed)

**PHYS 4X95**

**Independent Studies** A study program arranged between an advanced student and an instructor to provide intensive study in a particular area of interest. The course includes a definition of goals appropriate for the advanced student, ways of attaining those goals, a schedule for frequent consultation, and means of measuring progress.

**PHYS 4X96\***

**Honors Tutorial.** Prerequisite: See requirements for Honors for Physics majors. This course provides the Honors student in Physics with the opportunity to explore more advanced topics in the field. It may be taken concurrently with an upper level Physics course, or as an independent study. This course may be repeated if content differs. (As needed)

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### PHYS 4X97\*

**Honors Thesis/Project.** Prerequisites: See requirements for Honors for Physics majors. This course provides the Honors student in Physics with the opportunity to pursue a research topic under the direction of a Physics faculty member. The project will result in a final presentation (written and oral) to an appropriate audience. (As needed)

### PHYS XX99

**Special Topics** A course of study offered occasionally to groups of students to broaden departmental curriculum, to meet student demand, or to observe special events. May be repeated for credit when topics vary.

## PREP FOR HEALTH PROFESSIONS

### PREP 2105

**Seminar in Health Professions I (1-0).** Prerequisites: None. This is an elective course not counting for credit in any major. An introduction into the expectations and requirements for admission to a health profession school. Students will research professional programs of interest; begin developing application specific elements; formulate a four-year plan of action; and pursue field experience with practitioners. This course is pass/fail. (Fall)

### PREP 2106

**Seminar in the Health Professions II (1-0).** Prerequisite: PREP 2105. This is an elective course not counting for credit in any major. Students will refine application specific elements; complete a mock professional school application; prepare for an interview; explore the life of a professional school student; finalize their application portfolio; and prepare, review, and participate in practice entrance exams. This course is pass/fail. (Spring)

## POLITICAL SCIENCE

### PSC 1310

**Introduction to Politics (3-0)** Prerequisites: None. A required course for majors and minors. An introductory course to the discipline of Political Science that examines significant issues in politics from a variety of discipline-specific perspectives. Students, for example, will study the different governing institutions in developed and developing states, how these institutions promote or hamper political freedoms and civil rights, and how different political cultures shape political ideologies. (Fall, spring)

### PSC 2310

**American National Government (3-0)** Prerequisites: None. A required course for majors, minors, and students in teacher education programs. Optional for the general education requirement in Global, Societal, and Personal Perspectives Society and Self section. An introductory course which surveys the historical origin, the constitutional basis, the forms, powers, and functions of the federal government. (Fall, Spring) (TCCN GOVT 2305)

### PSC 2320

**State Government (3-0)** Prerequisites: None. However, students in teacher education programs are advised to take PSC-2310 first. Optional for majors and minors, and required for Social Studies minors. An introductory course on state and federal relations. An intensive study of the government of Texas. (Fall, Spring) (TCCN GOVT 2306)

### PSC 2350

**Contemporary Global Issues (3-0)** Prerequisites: None. This course will satisfy the general education requirement in Global, Societal, and Personal Perspectives, World section. In this course, students will learn about key contemporary global

issues, such as human rights, globalization, and democratization, and examine how these issues impact countries across the globe. Students also will analyze the extent to which these issues have changed different countries' understanding of how they fit into the larger global community. (Fall, Spring)

### PSC 3305

**Campaigns and Elections (3-0)** Prerequisite: PSC 2310. Optional for majors and minors. This course is offered every other fall semester coinciding with the federal election cycle. It will examine the elections as they unfold, studying historical trends and the current political situation. How candidates campaign for office will be an important focus of this class. (Fall even years)

### PSC 3310

**Political and Cultural Geography (3-0)** Prerequisites: None. Optional for majors and minors. A required course for students in the Social Studies minors. A study of the interaction between human culture and its environment, and including urban growth, national development, regions, economic development, and influence of geography on history. Focus at local, state, national, and global levels. (Spring)

### PSC 3350

**Comparative Politics (3-0)** Prerequisites: P SC 2310 or P SC 2350. A required course for majors and minors. This survey course analyzes similarities and differences across a variety of governing systems, through a survey of two countries within each of the following categories: established democracies (e.g., UK and France), communist and post-communist countries (e.g., Russia and China), and less developed countries. The US is used as a reference for comparison across all three categories. (Fall)

### PSC 3355

**International Relations (3-0)** Prerequisites: P SC 2310 or P SC 2350. A required course for majors and minors. This survey course analyzes various perspectives on inter-state behavior in the international system, with particular emphasis placed on understanding conditions under which war, or peace and cooperation, are more likely to occur. Topical issues also analyzed include: redefining security in the 21st century; the role of non-governmental entities in influencing inter-state behavior (e.g., terrorist organizations, or the UN); and conventional and nuclear weapons arms control. (Spring)

### PSC 3360

**Modern Political Philosophy (3-0)** Prerequisite: P SC 2310 or 2350. A required course for majors and minors. This course surveys the contributions to modern political philosophy made by major political philosophers, political leaders, as well as noteworthy intellectuals from Machiavelli to Mill., and others. (Fall)

### PSC 3365

**International Organizations (3-0)** Prerequisites: P SC 2350 or 3355. Optional for majors and minors, and is strongly recommended for students wishing to take Model UN (P SC 3375). In this course, students will learn about international organizations (IOs), as agents coordinating policies approved by countries and as autonomous actors in their own right. This course begins with an examination of the history and evolution of IOs, and then focuses on one or two major IOs of the 21<sup>st</sup> century, such as the United Nations (UN) and European Union (EU). Students taking this course also will have an opportunity to attend the American Model UN conference in Chicago. (Fall even years)

### PSC 3375

**Model United Nations (3-0)** Prerequisite: Permission of the Instructor. Intended for majors, minors, and all other students interested in the Model UN program. This course also may be used as a major elective for Multidisciplinary Studies I, II, III.



This course is designed to introduce students to the structure and functions of the United Nations, and to prepare students to role-play specific countries at local and national Model UN conferences. Students in this course are expected to attend the National Model UN in New York. (Spring)

**PSC 4330**

**Congress (3-0)** Prerequisite: P SC 2310. Optional for majors and minors. A study of the power, roles, and institutional constraints of the legislative branch of the federal government. This course will examine how the Senate and the House of Representatives operate both as individual chambers and in tandem with other branches of government. (Fall odd years)

**PSC 4335**

**Presidency (3-0)** Prerequisite: P SC 2310. Optional for majors and minors. This class is a study of the roles, powers, and institutional constraints of the chief executive of the federal government. This class will study the history of the presidency and how its powers have evolved since George Washington. Special attention will be paid to its relationship with other branches of government. (Spring even years)

**PSC 4340**

**American Foreign Policy (3-0)** Prerequisite: P SC 2310 and junior or senior standing. Optional for majors and minors. This course uses simulations and creations of alternative histories to convey the opportunities and costs associated with internationally focused and isolationist foreign policies. Particular emphasis is placed on historical and current US policies toward its neighbors in the Western Hemispheres, the rise and decline of the US as a global hegemon, the Cold War and the US - UN relationship. This is a capstone course for Political Science. (Fall odd years)

**PSC 4350**

**The Supreme Court and Constitutional Law (3-0)** Prerequisites: PSC 2310 and junior or senior standing. Optional for majors and minors. The study of the Supreme Court as an equal and independent branch of government with a focus on its members, both past and present, and its role as final interpreter of the Constitution. This is a capstone course for Political Science. (Spring odd years)

**PSC 4360**

**International Political Economy (3-0)** Prerequisite: P SC 2310. Optional for majors and minors. This course examines the philosophical origins of and alternatives to economic and political liberalism, with particular emphasis on the creation and evolution of the international trading and monetary system established by the US immediately following World War II. Contemporary topics include the WTO and regional trading blocks, and their impact on the global economy. (As needed)

**PSC 4388**

**Internship (3-0)** Prerequisite: P SC 2310. A work-study program open to advanced majors in political science. This course fulfills the department's experiential learning requirement. Students are required to work a total of 150 hours, keep a daily journal, and write a feedback report assessing their internship experience. Can be taken only once for credit towards the major, but can be repeated once for elective credit. With the approval of the instructor. (Fall, Spring)

**PSC 4X96\***

**Honors Tutorial (4-0)** Prerequisites: 15 hours in political science and admission to the departmental honors program. Designed for the honors student in political science; includes intensive reading on a selected topic, analysis, and research. (Fall, Spring)

**PSC 4X97\***

**Senior Thesis (4-0)** Prerequisites: 18 hours in political science, admission to the departmental honors program, and approval of the research project by department and Honors Committee. Designed for the honors student in political science. An independent research project on a topic approved by the political science faculty; findings reported in writing and orally to the faculty of the department. Successful completion is required for graduation with honors in political science. (Fall, Spring)

**PSC XX99**

**Special Topics (3-0)** Prerequisites: None. Optional for majors and minors. A course of study offered occasionally to groups of students to broaden departmental curriculum, to meet student demand, or to observe special events. May be repeated for credit towards the major when topics vary.

**PSYCHOLOGY****PSYC 1340**

**General Psychology (3-0)** Prerequisites: None. Designed as a course for anyone interested in psychology, and is required for psychology majors, minors, and nursing majors, and is optional for the General Education Requirement for Personal and Global Perspectives. This course is an overview of the scientific study of factors underlying human and animal behavior. Topics include physiological bases of behavior, learning, development, personality theories, social interaction, psychological disorders, and therapy. (Fall, Spring, May) (TCCN PSYC 2301)

**PSYC 2360**

**Developmental Psychology: The Human Life Cycle (3-0)** Prerequisites: None. Designed as a course for anyone interested in psychology. Course is required for psychology, and nursing majors, and is an elective for all others. This course is an introduction to the individual's personal development and change throughout the life span. (Fall, Spring) (TCCN PSYC 2314)

**PSYC 3301**

**Human Cognition and Learning (3-0)** Prerequisite: PSYC 1340. This course is required for psychology majors and is an elective for other students. This course is a survey of cognitive and learning theories. Topics include, elemental and higher-order cognitive processes, classical and operant conditioning, motivation, physiological aspects of learning, and computer modeling theories of learning. (Fall)

**PSYC 3305**

**Research Methods and Statistics I (3-0)** Prerequisite: MATH 1311 or equivalent. The first of a required two course sequence, this course is an integrated survey of the basic methods and statistics employed in social and behavioral science research. This course emphasizes the link between common research methodologies and the elementary statistics used to describe and interpret results. Topics include; the philosophy of science and the scientific method, the ethics of social research, validity and reliability, sampling, and creating and using tests, surveys, and objective measures. (Fall)

**PSYC 3306**

**Research Methods and Statistics II (3-0)** Prerequisite: PSYC 3305. The second of a required two course sequence, this course is an integrated survey of the basic methods and statistics employed in social and behavioral science research. This course emphasizes the link between common research methodologies and the elementary statistics used to describe and interpret results. Topics include descriptive statistics, correlation, experimental and quasi experimental designs, single participant experiments and longitudinal studies, and research with categorical data. (Spring)

## Course Descriptions - Undergraduate

### PSYC 3310

**Language: Mind, Brain and Society (3-0)** Prerequisites: None. This course is Cross-listed as READ 3310. Counts as an elective for Psychology majors and minors. The course focuses on defining the nature of human language, the linguistic structure of the English language, and how the knowledge of linguistics, psychological, neurological, and social foundations of language is useful for teaching and learning. (Fall, summer I)

### PSYC 3320

**Personality Psychology (3-0)** Prerequisite: PSYC 1340. Counts as an elective for all psychology majors and minors. This course involves a detailed investigation of the processes responsible for normal and abnormal personality formation. Topics include contemporary and historical models of personality, their assumptions, structures, research methods, assessment techniques, and findings. (Fall)

### PSYC 3340

**Social Psychology (3-0)** Prerequisites: PSYC 1340 or SOC 2300. (Cross-listed as SOC 3340) A required course for all psychology majors and an elective for psychology minors. This course is a survey of the ways in which interpersonal events and cultural forces can affect attitudes, social learning, perception, and communication by the individual and the group. (Fall, Spring)

### PSYC 3382

**Positive Psychology and Mental Health (3-0)** Prerequisite: PSYC 1340. Intended as an elective for majors and minors in psychology. This course is a study of the prevention and correction of maladjustment and the development of the wholesome personality. Strong emphasis is placed on the contributions that the behavioral sciences make to the understanding of the individual. (Spring)

### PSYC 3385

**Gerontology (3-0)** Prerequisites: PSYC 1340 and 2360 or permission of instructor. Intended as an elective for majors and minors in psychology who have an interest in learning about and working with the elderly. This course involves a study of the aging process, including the physical, psychological, and social influences on aging. It includes an analysis of the services available and needed by the elderly. (Fall odd years)

### PSYC 3390

**Psychopharmacology (3-0)** Prerequisite: PSYC 1340. Intended as an elective for psychology majors and minors who are interested in the role of chemicals in influencing behavior. This course studies the relationships among most common drugs, biochemical processes of the central nervous system, and behavior. The common uses of these drugs in various clinical and medical therapies, substance abuse, and treatment methods are also stressed. (As needed)

### PSYC 4300

**Abnormal Psychology (3-0)** Prerequisites: PSYC 1340 and junior or senior standing. This course is designed for all persons with an interest in psychological disorders and is an upper level elective for psychology minors, but is required for majors. This course is concerned with an analysis of maladaptive behavior including mood, anxiety, psychotic, and personality disorders, as well as substance abuse, somatoform disorders, brain dysfunction, and dissociative disorders. Classification, etiology, prevention, and treatment of abnormal behaviors are also examined. (Fall, Spring)

### PSYC 4315

**Psychological Tests and Measurements (3-0)** Prerequisites: PSYC 1340, three additional advanced hours in psychology, and junior or senior standing. Intended for those students who seek training in administering and evaluating psychologi-

cal tests. It is an upper level elective for psychology majors intended for those students who seek an introduction to the administration and evaluation of psychological tests. This course is designed as a survey of a wide variety of group and individual psychological tests. Students administer, score, and interpret selected tests. Topics include test validity, reliability, objectivity, standardization, and meaning of tests and measurements in psychological and educational settings. (Spring, even years)

### PSYC 4320

**Psychology of the Criminal Mind (3-0)** Prerequisites: PSYC 1340, three additional advanced hours in psychology, and junior or senior standing. Intended for all students with an interest in psychology and criminal justice. An upper level elective for psychology majors and minors, and all other interested students. This course is designed to provide the student biological, psychological, and sociocultural theoretical explanations for criminal behavior. Research findings and the treatment and handling of criminals from a mental health perspective are examined. Emphasis is placed on understanding the behavior and thought processes of psychopaths. The use of mental health professionals within the criminal justice system is also discussed. (Fall even years)

### PSYC 4330

**History and Systems of Psychology (3-0)** Prerequisites: PSYC 1340, three additional advanced hours in Psychology, and junior or senior standing. An upper level elective for psychology majors and minors. This course investigates the historical development of systems and theories of psychology, emphasizing both the continuity of ideas and the changes in those ideas as psychology has evolved. Various historical and contemporary schools of thought in psychology are examined. (As needed)

### PSYC 4341

**Physiological Psychology (3-0)** Prerequisites: PSYC 1340, BIOL 1401 or equivalent, and junior or senior standing. Required for all psychology majors and is an elective for psychology minors. Designed for the psychology or biology student with an interest in how biological function influences behavior. This course examines the processes by which biological factors influence human and animal behavior. Special emphasis is placed on the effects of the brain, neurotransmitters, hormones, and genetics on learning, memory, motivation, sensation, and abnormal behavior. (Spring)

### PSYC 4365

**Death and Dying (3-0)** Prerequisite: PSYC 1340. This course is designed for all students with an interest in understanding death processes. An upper level elective for psychology majors and minors. This course is a study of the social and psychological impact of dying, death, and bereavement. Students are provided the opportunity to explore their own feelings about death and dying and to develop professional skills for working with dying and grieving persons. (Spring even years)

### PSYC 4370

**Industrial and Organizational Psychology (3-0)** Prerequisites: PSYC 1340, three additional advanced hours in psychology, and junior or senior standing. Designed as an upper level elective for psychology majors, minors, and business students. This course studies the application of the principles of individual and group psychology to persons in the workplace and other organizational settings. Topics include behavioral measurement, personnel selection and training, job satisfaction, and human factors in job design. (As Needed)

### PSYC 4375

**Clinical and Counseling Psychology (3-0)** Prerequisites: PSYC 1340, PSYC 4300, three additional advanced hours in psychology, and junior or senior standing. Designed as an up-

per level elective for psychology majors and minors. This course covers some of the major theoretical schools of thought within psychology. Some of the ethical, value, and legal issues related to counseling and their implications for the counseling relationship are discussed. Students will be challenged to think about their own intrapersonal and interpersonal strengths and weaknesses and how these factors could impact the counseling relationship. (Spring)

**PSYC 4388**

**Internship in Psychology (0-9)** Prerequisites: PSYC 1340, 6 advanced hours in psychology coursework, and junior or senior standing. Intended as an upper level elective for psychology majors. A pre-approved and supervised work experience designed to supplement academic training. Students work 150 hours at a local agency and attend supervisory meetings. Interested students should discuss this course with the psychology faculty by October 1 for spring semester placement and by March 1 for summer or fall semester placement. This is an experience-enriched course. May be repeated for credit. (Fall, Spring)

**PSYC 4392**

**Senior Seminar in Psychology (3-0)** Prerequisites: Senior standing, and 24 hours in psychology or approval by the instructor. Required for all psychology majors. This course is designed to stimulate critical thinking and initiate debate on a number of diverse controversial issues in psychology. The emphasis is on explaining different theoretical approaches to psychological issues and how they can be integrated into a conceptual whole. Students take a locally prepared departmental exam and the Major Field Achievement Test (MFAT) in Psychology as part of this course. These tests are considered in students' final grade. This course is designated as the capstone course in psychology. (Fall, Spring)

**PSYC 4X95**

**Independent Studies (variable credit)** Prerequisites: PSYC 1340, six additional advanced hours in psychology, and junior or senior standing. An upper level elective for psychology majors and minors. This is an advanced study or research program arranged between an advanced student and an instructor to provide intensive study of a particular area of interest. The course includes a definition of goals appropriate for the advanced student, ways of attaining those goals, a schedule for frequent consultation, and means of measuring progress. No more than three semester hours can be approved in Independent Studies. (By arrangement)

**PSYC 4X96\***

**Honors Tutorial (variable credit)** Prerequisites: 15 hours in psychology and admission to the departmental honors program. Designed to challenge unusually gifted students in psychology. This course provides opportunities for investigation into a variety of psychological topics. It can be taken concurrently with an upper level psychology course or as a separate independent study. This is an experience-enriched course. (By arrangement)

**PSYC 4397\***

**Honors Thesis (0-9)** Prerequisites: 15 hours in psychology, admission to the departmental honors program, and approval of the topic by the department and the Honors Committee. This course will provide an opportunity for a student to pursue an in-depth analysis of some contemporary approach to a topic in psychology and write a comprehensive review paper on the findings (25-50 pages). There must also be an oral presentation of this material to an appropriate audience. Honors graduates must successfully complete either Honors Thesis or Honors Research. This is an experience-enriched course and the capstone course for the honors program in Psychology. (By arrangement)

**PSYC 4398\***

**Honors Research (0-9)** Prerequisites: 15 hours in psychology, admission to the departmental honors program, and approval of the topic by the department and the Honors Committee. This course will provide an opportunity for a student to pursue an original research topic under the direction of a faculty member from the Department of Psychology. There must be a written report (25-50 pages) of the research findings in a form suitable for publication. There must also be an oral presentation of this material to an appropriate audience. Honors graduates must successfully complete either Honors Research or Honors Thesis. This is an experience-enriched course and the capstone course for the honors program in Psychology. (By arrangement)

**PSYC XX99**

**Special Topics (level and credit are variable)** Prerequisites: PSYC 1340, three additional advanced hours in psychology, and junior or senior standing. An elective for psychology majors, minors, and other interested students. Courses of this nature are infrequent on unique topics of study offered occasionally to groups of students to broaden departmental curriculum, to meet student demand, or to observe special events. Courses of this type may be repeated once for credit when the topics vary. (Fall, Spring, Summer)

**READING**

**READ 3300**

**Introduction to the Teaching of Reading EC-Grade 6 (3-0)** Prerequisite: None. Methods and approaches for effective reading instruction. Includes a foundational understanding of phonological awareness, phonics, fluency, vocabulary, and comprehension. (Fall, Spring, Summer) (Required for EC-6 certification)

**READ 3310**

**Language: Mind, Brain and Society (3-0)** Prerequisites: None. This course is Cross-listed as PSYC 3310. This course is required for ESL teaching endorsement focus students, but serves as a major elective for other Early Childhood Education students. The course focuses on defining the nature of human language, the linguistic structure of the English language, and how the knowledge of linguistics, psychological, neurological, and social foundations of language is useful for teaching and learning. (Fall, Summer I)

**READ 3315**

**Children's Literature I (3-0)** Prerequisites READ 3300. Survey of seven genres of children's literature from ancient to present times with emphasis on award-winning selections. Special emphasis on use of children's books in elementary grades. (Fall, Summer) (Required for EC-6 certification)

**READ 3316**

**Children's Literature II (3-0)** Prerequisites: READ 3300. A survey of books suitable for readers in the upper elementary school. It will include a survey of Newbery Award winning authors and texts. All seven genres of literature will be studied. May be used as a major elective for EC-6 certification. (Spring)

**READ 3332**

**Reading in the Content Areas Grades 4 – 8 (3-0)** Prerequisite: Junior standing. Teaching reading skills necessary to master printed text material in sciences, social studies, and other content areas. Exploring the correlation of reading ability and learning in the content area classroom. Discovering ways to level content area material for students. Planning sample content area units of work incorporating reading skills improvement. (Fall, Spring, Summer)

## Course Descriptions - Undergraduate

### READ 3334

**Reading and Language Arts in the Multilingual Classroom (3-0)** Prerequisite: READ 3300, 3310. Methods and curriculum materials for teaching reading and language arts in the multilingual classroom; teaching English as a second language; language experience and vocabulary building. (Fall, Summer even years), (Required for EC-6 certification)

### READ 3335

**Reading, Instruction and Assessment (3-0)** Prerequisites: READ 3300 or READ 3340. Techniques for assessing and teaching phonological awareness, phonics, fluency, vocabulary, and comprehension. Classroom experience using these techniques will be included. (Fall, Spring, Summer) (Required for EC-6 certification)

### READ 3338

**Teaching Reading Grades 8-12 (3-0)** Prerequisite: Junior standing. Methods for teaching reading in grades 8-12 with an emphasis on teaching reading as an active process of constructing meaning. Techniques for teaching phonetic and structural analysis, vocabulary, fluency, and comprehension. (Fall)

### READ 3340

**Teaching Reading Grades 4-8 (3-0)** Prerequisite: Junior standing. Methods of teaching reading in grades 4-8 with an emphasis on teaching reading as an active process of constructing meaning. Techniques for teaching phonetic and structural analysis, vocabulary, fluency, and comprehension. (Fall)

### READ 3342

**Reading in the Content Areas Grades 8 –12 (3-0)** Prerequisite: Junior standing. Teaching reading skills necessary to master printed text material in sciences, social studies, and other content areas. Exploring the correlation of reading ability and learning in the content area classroom. Discovering ways to level content area material for students. Planning sample content area units of work incorporating reading skills improvement. (Fall, Spring, Summer)

### READ 3380

**Teaching Language Arts EC-6 (3-0)** Prerequisite: Successful completion of the General Education requirements in English and READ 3300. This course introduces the prospective teacher to concepts and developmentally appropriate instructional strategies for helping EC-6 students learn to speak, listen, view, re-present, and write effectively. The teaching of the writing process and fundamental writing skills such as spelling, handwriting, grammar and punctuation are emphasized through active learning experiences. (Fall, Spring) (Required for EC-6 certification)

### READ 4337

**Diagnostic and Corrective Reading Grades EC-6 (3-0)** Prerequisites: READ 3300, 3335. Techniques in diagnosing literacy difficulties and prescribing instruction for those difficulties. Field experience required. (Fall, Spring, Summer) (Required for grades EC-6 certification)

### READ XX99

**Special Topics (variable credit)** Prerequisite: Permission of instructor. A course of study offered occasionally to groups of students to broaden departmental curriculum, to meet student demand, or to observe special events. May be repeated for credit when topics vary. (by arrangement)

## RELIGION

### REL 1310

**The Bible in One Semester** Prerequisites: None. This course satisfies 3 hours General Education requirement for Under-

standing Christian Tradition. The course emphasizes reading through the entire Bible, becoming familiar with general historical backgrounds, important figures, themes, and teachings. (Fall, spring)

### REL 1330

**Introduction to Christianity (3-0)** Prerequisites: None. An introductory level course for all students. Satisfies 3 hours General Education requirement for Understanding Christian Tradition. The course is a general introduction to the history, theology, and social impact of Christianity past and present with attention given to the relationship of Christianity to persons and institutions in the modern world. (Fall, Spring)

### REL 2309

**Holocaust through the Eyes of Elie Wiesel (3-0)** Prerequisites: None. This course examines the Holocaust through the writings of Elie Wiesel, a renowned Holocaust survivor. Readings by Weisel are augmented with film and documentary presentations. Implications and events of the Holocaust are examined through religious, literary and historical perspectives. (May)

### REL 2310

**Introduction to Christian Ministry (3-0)** Prerequisites: None. Faithful Christian ministry requires spiritual and intellectual formation. This course introduces students to ministry within the context of Christian discipleship. It is intended for all students discerning a vocation to ministry, and is required of all religion majors and minors.

### REL 2330

**Introduction to the Old Testament (3-0)** Prerequisites: None. This course satisfies 3 hours General Education requirement for Understanding Christian Tradition. The course is a survey of the Old Testament which investigates the history of the Hebrew people, the nature and development of their relationship with God, and the transmission of their tradition and experience in literary form. (Fall, Spring)

### REL 2340

**Introduction to the New Testament (3-0)** Prerequisites: None. This course satisfies 3 hours General Education requirement for Understanding Christian Tradition. The course is a survey of the New Testament which investigates the life of Jesus, the emergence of the Christian movement, and the articulation of the Christian experience in literary form. (Fall, Spring)

### REL 2350

**Religions of the World (3-0)** Prerequisites: None. For all students, majors and minors. Satisfies 3 hours of general education for Global, Society, and Personal Perspectives World section. The course surveys selected major religions with some considerations of their founders, their major concepts, their historical development and influence. (Fall)

### REL 2360

**Research Methods in Religion and Philosophy (3-0)** prerequisites: REL 1330, or REL 2330, or REL 2340, or PHIL 2350. An introduction to methods of research and writing germane to the disciplines of religion and philosophy, with an emphasis on critical assessment of relevant disciplinary scholarship.

### REL 3300

**Homiletics (3-0)** Prerequisites: REL 1330, or REL 2330, or REL 2340. This course focuses on the development and delivery of sermons grounded in a Christian theology of preaching. Theological and hermeneutical foundations for preaching are explored and applied. Careful attention is devoted to sermon development, for, structure, and delivery. Students develop, write, and orally deliver sermons in class. (Fall even years)

**REL 3310**

**Eastern Orthodox Theology (3-0)** Prerequisites: REL 1330 or permission of instructor. A study of major figures and themes in Eastern Orthodox thought, with attention both to points of commonality and difference between Eastern and Western Christian theology. (Spring even years)

**REL 3315**

**Catholic and Protestant Theology in Dialogue (3-0)** Prerequisites: REL 1330 or permission of instructor. A comparative study of Catholic and Protestant theology, with special attention to points of commonality and difference between these traditions of Christian belief. (Spring odd years)

**REL 3320**

**Biomedical Ethics (3-0)** Prerequisites: REL 1330 or 2330, or 2340. A study of the major ethical issues at stake in health care. Attention is given to religious, philosophical, professional, and historical dimensions of the moral analysis of medicine. (Fall even years)

**REL 3330**

**Christian Ethics (3-0)** Prerequisites: REL 1330 or permission of instructor. An introduction to major themes and figures in Christian moral analysis, with attention to both applied and theoretical dimensions of ethics. Topics addressed include abortion, sex, war and peace, euthanasia, and political action. (Fall odd years)

**REL 334(a-k)**

**Advanced Biblical Studies (3-0)** Prerequisites: REL 1330, or 2330 or 2340 or permission of instructor. For majors and minors or an advanced elective. The course involves intensive study of one biblical book, theme, problem, or concept. The content of the course will be specified each time the course is offered. A student may repeat the course when the topic differs. (Fall, Spring)

**REL 3335**

**Introduction to Hospital Ministry (3-0)** Prerequisites: REL 2310 or permission of instructor. This course introduces students to hospital ministry with special attention to the foundational concepts and basic skills necessary for engaging patients and families, reflecting with peers, and interacting with healthcare professionals. (Fall and spring)

**REL 3340**

**Pastoral Care and Counseling (3-0)** Prerequisites: REL 2310. The work of the minister is explored with particular attention to pastoral caregiving in congregational contexts. Topics include pastoral theology, pastoral counseling, professional limits and counseling referrals, bereavement, mental health crises, alcohol and drug addiction, family ministry, hospital ministry, prayer ministry, ministry through the lifespan, and self-care of the minister. (Spring odd years)

**REL 3375**

**History of Christianity to 1500 (3-0)** Prerequisites: REL 1330 or permission of instructor. This course examines the intellectual, institutional, and social history of the Christian church up to the eve of the Protestant Reformation.

**REL 3385**

**History of Christianity from 1500 (3-0)** Prerequisites: REL 1330 or permission of instructor. This course continues the survey of the history of Christianity begun in REL 3375, exploring the Protestant Reformation and the many Christian churches, sects, and movements that have developed since 1500.

**REL 3390**

**Christianity in Scotland (3-0)** Prerequisites: REL 1330, 2330, or 2340, or permission of instructor. A course on the history of Christianity in Scotland from its origins to the present day. In

addition to reading and research in the subject matter, the course requires participation in a study tour of Scotland, (As needed, May or Summer)

**REL 4309**

**Holocaust through the Eyes of Elie Weisel (3-0)** Prerequisites: None. This course examines the Holocaust through the writings of Elie Wiesel, a renowned Holocaust survivor. Readings by Weisel are augmented with film and documentary presentations. Implications and events of the Holocaust are examined through religious, literary and historical perspectives. Cross-listed with ENG 4309. (May)

**REL 4320**

**Philosophy of Religion (3-0)** Prerequisites: None. Cross-listed in Philosophy. For majors and minors and fulfills Humanities General Education requirement. This course examines the conceptual basis and logic of religious commitment. Emphasis on the varieties of theism together with appraisals of competing views, rational grounds for belief in God, the problem of evil, and human destiny. Issues will be related to contemporary theology. (Fall odd years)

**REL 4340**

**Worship and Liturgy (3-0)** Prerequisite: RE: 2310. This course focuses on the history and theology of Christian liturgy and the development of skills for planning and leading worship in the local church. Topics include the service of the Word, the celebration of sacraments, weddings, funerals, and the liturgical calendar. (Fall odd years)

**REL 4365**

**The Christian Bible: Formation and Interpretation** Prerequisites: REL 1330, 2330, 2340, or permission of instructor. This course explores both the canonization process of the Christian Bible (Old and New Testament), and the various methods of scriptural interpretation employed within the Christian tradition.

**REL 4375**

**Augustine, Anselm, Aquinas, and Luther (3-0)** Prerequisites: REL 1330 or permission of instructor. This course explores the lives and thought of four giants in the history of the Christian church in the West. Each figure will be studied in his own context and placed in dialogue with the other thinkers.

**REL 4380**

**The Methodist Movement, Pietism and Evangelical Revival (3-0)** Prerequisites: REL 1330 or permission of instructor. This course examines the development of Pietism and Evangelicalism, including the Wesleys and the rise of Methodism.

**REL 4388**

**Internship in Christian Ministry. (3-0)** Prerequisites: 24 hrs toward requirements for the major or 15 hrs towards the minor. Supervised field experience in various forms in Christian education. For majors or minors. Students can take up to two terms (including summer) to complete internship. The amount of credit for each term will vary in accord with specific arrangements. Christian education directors, pastors and laymen cooperate with college faculty to supervise students in the development of professional awareness and skills needed for leadership in the educational programs of the Church. (As needed)

**REL 4390**

**Senior Seminar in Religion (3-0)** Prerequisites: Senior Standing as a religion major or permission of instructor. A senior seminar required for all religion majors. The course focuses on directed readings of classic texts in relation to perennial issues in religion. (Spring)

## Course Descriptions - Undergraduate

### REL 4X95

**Independent Studies (variable credit)** Prerequisites: 6 hours of religion. For religion majors and minors. This course is arranged between an advanced student and an instructor to provide intensive study in a particular area of interest. The course includes a definition of goals appropriate for the advanced student, ways of attaining those goals, a schedule for frequent consultation, and means of measuring progress. (By arrangement)

### REL 4X96\*

**Honors Tutorial (variable credit)** Prerequisites: See requirements for honors. For religion majors. This course provides the honors student in religion with the multifaceted disciplines in the study of religion (both academic and practical) Those admitted to the honors program will work with the religion department faculty in this tutorial either in conjunction with existing advanced departmental offerings or in an independent study tutorial. (By arrangement)

### REL 4X97\*

**Senior Thesis/Project (variable credit)** Prerequisite: See requirements for honors. For honors candidates. The student wishing to graduate with honors in religion will successfully complete a Senior thesis or Senior project in religion. The Thesis/Project incorporates independent research and the gathering of data, analytical and hermeneutical skills, and the presentation of results in both written and oral form. Each student will have a thesis or project supervisor from the Department of Religion and the thesis must have the approval of the supervisor and at least one more member of the religion department. (By arrangement)

### REL XX99

**Special Topics (variable credit)** Prerequisite: 3 hours of religion. For religion majors or minors. A course of study offered occasionally to groups of students to broaden departmental curriculum, to meet student demand, or to observe special events. May be repeated for credit when topics vary. (By arrangement)

## SCIENCE

### SCI 2310

**Leadership in Science and Mathematics (2-3)**  
Prerequisites: One Lab Science, MATH 1311, and sophomore standing. Optional course for the general education requirements for Leadership Excellence and Virtue. An exploration of leadership, excellence, and virtue in the utilization of scientific disciplines to solve problems. Students will gain experience in scientific research through addressing a need expressed by a partner community. Laboratory participation is an integral part of the course. (As needed)

## SERVANT LEADERSHIP

### SLD 1300

**Introduction to Ethics (3-0)** Prerequisites: None. This course may be used to fulfill McMurry University's general education requirement for Leadership, Excellence, and Virtue. The course provides an introduction to ethical theories (deontological, teleological, virtue ethics, etc.), moral decision-making, and key contemporary moral issues. Particular attention is given to practical application in moral reasoning and to the development of sensitivity to ethical issues of contemporary society, focusing on rights and duties of individuals and groups and the nature of legitimate needs and values. (Fall, Spring) (TCCN PHIL 2306)

### SLD 1310

**Concepts And Techniques Of Servant Leadership**  
A discussion of the nature, styles, and skills of Servant Leadership, utilizing historic and contemporary models and emphasizing

ing moral roots of responsible leadership. Students will participate in a field experience in the Abilene community, combined with reflection and discussion in small groups on issues in Servant Leadership. (Fall, Spring)

### SLD 2310

**Formation in Servant Leadership (3-0)** Prerequisites: SLD 1310 or permission of instructor. Formation in Servant Leadership is a seminar style course focusing on personal and interpersonal growth in servant leadership. Emphasis is placed on self-awareness, personal mastery (effective self-leadership), deep listening, group facilitation and service learning. (Fall)

### SLD 3310

**Theories of Leadership (3-0)** Prerequisites: SLD 1310 or permission of instructor. A seminar style course focusing on recent research and literature in leadership. Emphasis will be placed on the mastery and implementation of leadership theories. Special attention will be devoted to theories that incorporate service. (Spring)

### SLD 3320

**Dialogue with the other (3-0)** Understanding and working the the "other" (variously defined) is a crucial skill for servant leaders and is an increasingly necessary skill for anyone in a global, pluralistic world. Dialogue with the Other is a seminar style course focusing on understanding people and groups whose culture, ethnicity, race, religion, and/or lifestyle is outside the dominant frame(s) of reference of McMurry students. Students will conduct research on hermeneutical and practical aspects of dialogue, engage in phenomenological studies of various groups (the "other"), practice skills associated with dialogue, and develop service learning activities to practice what they learn.

### SLD 4388

**Servant Leadership Internship (3-0)** The Internship and Capstone in Servant Leadership provides an integrative learning experience near the completion of the BIS degree with an emphasis in Servant Leadership. Students are matched with an appropriate Field Supervisor in a community setting (business, organization, agency, etc.) and develop a minimum of three learning goals that include academic and experiential elements. Regular meetings are required with the field supervisor and the Director of Servant Leadership to develop, implement, and evaluate the fulfillment of the learning goals.

## SOCIOLOGY

### SOC 1300

**Sociological Issues: Examining the Collective Conscience (3-0)** Prerequisites: None. This course will satisfy the LEV or Sociology major/minor elective, but not both. In this course, students critically examine pressing social issues, particularly those relevant to a college campus, and discuss cohort characteristics of leadership and virtue. Specific attention is paid to the generational and personal moral values that underlie college students' conceptions of virtue and justice. (Fall, Spring)

### SOC 2300

**Introduction to Sociology (3-0)** Prerequisites: None. This course is designed for anyone interested in sociology or obtaining general education credit. The course is required for sociology and nursing majors. Core sociological insights and concepts such as social institutions, control, stratification, and socialization are overviewed. (Fall, Spring) (TCCN SOCI 1301)

### SOC 2310

**World Societies I (3-0)** Prerequisites: None. This course will satisfy the Global, Societal, and Personal perspectives requirement. Through a survey of ancient cultures in Africa, Asia, South America, Central America, and North America, students will examine a wide variety of ancient urban cultures and their

## Course Descriptions - Undergraduate

way of life. This course provides students with an overview of major social processes and social structures that affected the development of past civilizations from a global perspective. (Fall, Spring)

### SOC 2320

**World Societies II (3-0)** Prerequisites: None. This course will satisfy the Global, Societal, and Personal Perspectives requirement. In this course, students will examine contemporary social issues, within a global perspective. Students will investigate topics of world poverty, transnational crime, marriage and family, and how technology has spurred social change around the world. (Fall, Spring)

### SOC 2350

**Social Problems (3-0)** Prerequisites: None. This course is an inquiry into current social problems with specific reference to their origin, development, and suggested solutions. (Fall, Spring) (TCCN SOCI 1306)

### SOC 2375

**Crime and Society (3-0)** Prerequisites: None. This offering is the foundation course for criminology minors or students interested in learning about crime in our society. Informal and formal social control, the variations of deviant and criminal behavior, and crime and punishment policies are covered. Special attention is given to the kind of problems the law can solve as well as the problems that the law creates. (Fall, Spring)

### SOC 3300

**Social Research (3-0)** Prerequisites: SOC 2300 or permission of the instructor. Sociology majors are required to take this course. This course introduces the social research process of data collection, analysis, and interpretation. A balanced approach regarding quantitative and qualitative methods is offered. (Fall, Spring)

### SOC 3310

**Social Theory (3-0)** Prerequisites: SOC 2300 or permission of instructor. This course is required for sociology majors. This course is an overview of the origin of sociological theory, beginning with Comte, Marx, Weber, and Durkheim. Attention will be given to contemporary schools of thought. (Fall)

### SOC 3315

**Criminology (3-0)** Prerequisites: SOC 2375 or permission of instructor. This is a required course for criminology minors or an advanced elective for sociology majors and minors. This course focuses on crime in America. Past and present aspects of typologies, punishments, corrections, and styles of enforcement are overviewed. (Fall)

### SOC 3320

**Sociological Investigations (3-0)** Prerequisites: None. This course is designed as an advanced elective for anyone interested in sociology. It is oriented toward providing the student with a deeper understanding of the sociological perspective. Select works by sociologists will be examined pertaining to the methodological, theoretical, and practical contributions. (Spring odd years)

### SOC 3330

**Social Stratification (3-0)** Prerequisites: SOC 2300 or permission of instructor. This course is required for sociology majors. This offering is an analysis of the issues of wealth, prestige, and power in stratification systems. Particular attention is paid to social class and mobility patterns. (Spring)

### SOC 3335

**Juvenile Delinquency (3-0)** Prerequisites: SOC 2375 or permission of instructor. Advanced elective for sociology majors or minors. One of the interesting areas in criminology is the

topic of youth and criminal activity. This course is a study of how juvenile delinquency is determined and the criminal justice system created to deal with it. (Fall)

### SOC 3340

**Social Psychology (3-0)** Prerequisites: SOC 2300 or PSYC 1340. Cross-listed as PSYC 3340. This course is an advanced elective for sociology majors or minors, and all other interested students. This course is a survey of the ways in which interpersonal events and cultural forces can affect attitudes, social learning, perception, and communication by the individual and the group. (Spring)

### SOC 3345

**Studies in Criminology (3-0)** Prerequisites: SOC 2375 or permission of instructor. This course is an advanced elective for criminology minors and sociology majors or minors. Criminology is a growing field of specialization that produces an enormous amount of scholarship. Using a seminar format, this offering examines in-depth select studies which provide a better understanding of criminal and deviant behavior. (May)

### SOC 3350

**Race and Ethnicity (3-0)** Prerequisites: SOC 2300 or permission of instructor. This course is required for sociology majors. The course introduces some of the concepts and theories sociologists use to better understand the influences of racial and ethnic factors. Also covered are social policies which have influenced U.S. race relationships. (Fall)

### SOC 3360

**Marriage and the Family (3-0)** Prerequisites: SOC 2300 or permission of instructor. This course is an advanced elective for sociology majors or minors, and all other interested students. Types of family organization, disorganization, husband-wife and parent-child relationships, the impact of social change on family structure and function, and factors contributing to marital harmony are studied. (As needed)

### SOC 3370

**Gender and Society (3-0)** Prerequisites: SOC 2300 or permission of instructor. This course is required for sociology majors. The course considers the differential socialization of men and women and its effect on their experiences on the major social institutions of the family, the economy, and the educational system. Past practices, current trends, and future predictions of the role of men and women in society will be covered. (Spring)

### SOC 3375

**White Collar Crime (3-0)** Prerequisites: SOC 2375 or permission of instructor. This is an advanced elective for criminology minors and sociology majors or minors. This course is an analysis of the intersection of criminal behavior and social class. In particular, time is spent looking at white collar professionals involved in fraud, deception, embezzling, bribery, etc. Corporate as well as governmental settings are covered. (Spring odd years)

### SOC 3392

**Social Policy (3-0)** Prerequisites: SOC 2300 or permission of instructor. This offering can be used as an advanced elective for sociology majors or minors. This course is an examination of the social programs designed to help people improve their levels of personal and social functioning. Special attention will be given to applied sociology, poverty reform, family issues, and comparative strategies. (Spring even years)

### SOC 4325

**Issues in Criminology (3-0)** Prerequisites: SOC 2375 or permission of instructor. This is an advanced elective for criminology minors and sociology majors or minors. The course grapples with the complexities of the criminal justice system. Is-

## Course Descriptions - Undergraduate

sues such as defining crime, policing, forensics, constitutional right to counsel, sentencing, corrections, and parole are over-viewed. (Spring even years)

### SOC 4330

**Sociology of Religion (3-0)** Prerequisites: SOC 2300 or permission of instructor. This course is an advanced elective for sociology majors or minors, and all other interested students. This course is a study of the effect of social forces in shaping the thought and practice of religious institutions. Special attention will be given to American denominational policies and congregations. (Fall odd years)

### SOC 4335

**Women and Crime (3-0)** Prerequisites: SOC 2375 or permission of instructor. This course is an advanced elective for criminology minors and sociology majors concerning women's experiences as offenders, victims, and prisoners in the legal system. Students will become more aware of the influence of gender, race, class, and sexuality in the labeling, processing, and punishment of offenders. (Spring)

### SOC 4385

**Comparative Criminology (3-0)** Prerequisites: SOC 2375 or permission of instructor. This is an advanced elective for criminology minors and sociology majors or minors. This course broadens the student's exposure to criminology by addressing aspects of social control and crime in societies other than America. Attempting to identify alternative approaches, attention is paid to definitions of criminal activity, enforcement, and punishment. (Spring)

### SOC 4392

**Seminar in Sociology (3-0)** Prerequisite: Senior standing. This course is required for sociology majors. The course is designed to deal with, in a more advanced and integrated manner, the discipline of sociology. Emphasis will be placed on theoretical, methodological, and practical issues. This is the capstone course for Sociology. (Fall)

### SOC 4395

**Practicum (3-0)** Prerequisites: SOC 2300 or 2375. This course is an advanced elective for criminology minors, and sociology majors or minors. This offering is an arrangement between the student and instructor of intensive study or field experience. The course includes a definition of goals appropriate for the advanced student, ways of attaining those goals, a schedule for frequent consultation, and means of measuring progress. (Fall, spring)

### SOC 4X96\*

**Honors Tutorial (variable credit)** Prerequisites: 15 hours in sociology and admission to the departmental honors program. Designed for the honors student in sociology; includes extensive reading on a select topic involving sociological theory, method, or practice. (By arrangement)

### SOC 4X97\*

**Senior Thesis (variable credit)** Prerequisites: 18 hours in sociology, admission to the departmental honors program, and approval of thesis by department and Honors Committee. Designed for the student in sociology honors program; includes conducting a social research study or preparing an extended essay on a theoretical or applied topic. Regardless of the choice, the student is expected to write the thesis in the required format. (By arrangement)

### SOC XX99

**Special Topics (variable credit)** This course is an elective for sociology majors or minors, and all other interested students. It is offered to broaden departmental curriculum or to meet student demand. May be repeated for credit when topics vary.

## SPANISH STUDIES

### SPAN 1410

**Elementary Spanish I (3-1)** Prerequisites: None. For students who have had no previous instruction in the language, or have had one year or less of high school Spanish. Introduces patterns of pronunciation, basic conversation, grammar, reading and writing exercises, and aspects of Hispanic civilization. One hour of laboratory practice a week is required. Credit for this course may be earned by CLEP. (Fall, Summer I) (TCCN SPAN 1411)

### SPAN 1420

**Elementary Spanish II (3-1)** Prerequisites: SPAN 1410 or equivalent. For students who have had one semester of college level Spanish or one year of high school Spanish. This course is a continuation of SPAN 1410. One hour of laboratory practice a week is required. Credit for this course may be earned by CLEP. (Spring, Summer II) (TCCN SPAN 1412)

### SPAN 2310

**Intermediate Spanish I (3-0)** Prerequisites: SPAN 1420 or equivalent. For students who have completed one year of college Spanish or two years of high school Spanish. Reviews and expands work done in Elementary Spanish, including conversation, grammar, reading and writing. Broadens awareness of Hispanic culture and civilization. Credit for this course may be earned by departmental examination. (Fall, Summer I) (TCCN SPAN 2311)

### SPAN 2320

**Intermediate Spanish II (3-0)** Prerequisites: SPAN 2310 or equivalent. For students who have completed three semesters of college Spanish or three years of high school Spanish. This course is a continuation of SPAN 2310. Credit for this course may be earned by departmental examination. (Spring, Summer II) (TCCN SPAN 2312)

### SPAN 3301

**Conversation and Phonetics (3-0)** Prerequisites: SPAN 2320 and SPAN 3331, or departmental approval. Designed to strengthen speaking skills and oral comprehension. Oral practice is based in part on dramatic readings in class. (Spring odd years)

### SPAN 3331

**Grammar and Composition (3-0)** Prerequisites: SPAN 2320 or departmental approval. An in-depth study of the grammatical structure of Spanish with emphasis on idiomatic expressions, syntax and the development of an individual literary style. (Fall)

### SPAN 3336

**Hispanic Culture and Civilization (3-0)** Prerequisites: SPAN 2320, SPAN 3331 or departmental approval. A study of Iberian and Spanish American patterns of civilization. Key aspects of Hispanic history, economy, art, political life, and cultural topography are studied. (Fall odd years)

### SPAN 4311

**Survey of Spanish Peninsular Literature (3-0)** Prerequisites: SPAN 2320, SPAN 3331 or departmental approval. A survey of selected readings in Peninsular literature from medieval poetry such as *El cantar de mio Cid* to contemporary works by Garcia Lorca, Cela, Sender and Matute. (Spring even years)

### SPAN 4312

**Survey of Spanish Latin American Literature (3-0)** Prerequisites: SPAN 2320, SPAN 3331 or departmental approval. A survey of selected readings in Spanish-Latin American literature from the pre-colonial period to contemporary works and authors such as Popol Vul, Inca Garcilaso de la Vega, Sor Juana, Andrés Bello, Ruben Darío, García Márquez, Isabel Allende, etc. (Fall even years)



**SPAN 4322**

**Spanish Linguistics (3-0)** Prerequisites: SPAN 2320, SPAN 3331 or departmental approval. An introduction to the contrastive linguistics of Spanish and English. Acquaints students with the basics of descriptive, applied, psycho- and sociolinguistics. (Spring odd years)

**SPAN 4335**

**Spanish for Teachers and Majors (3-0)** Prerequisites: All Elementary, Intermediate and advanced courses or departmental approval. A practicum in language mastery. Prospective teachers learn theories, principles, strategies, techniques, and practical applications on how language is introduced and taught in meaningful contexts, it will assist the future teacher to develop a personal philosophy of language learning and teaching, suggestions for planning, teaching and assessment. Prospective teachers must demonstrate preparedness to pass state required tests for certification. This is the capstone course for Spanish. (Spring even years)

**SPAN 4X95**

**Independent Studies (variable credit)** Prerequisites: Persons pursuing certification, public school personnel, or permission of instructor. A study program arranged between an advanced student and an instructor to provide intensive study in a particular area of interest. The course includes a definition of goals appropriate for the advanced student, ways of attaining those goals, a schedule for frequent consultation, and means of measuring progress.

**SPAN 4X96\***

**Honors Tutorial** Prerequisites: 14 hours in Spanish and an overall GPA of 3.25. Designed for the honors student in Spanish, including study of particular topic, historical and background analysis, and research.

**SPAN 4X97\***

**Senior Thesis Of Project** Prerequisite: Designed for the honors student in Spanish. An independent research project on a topic approved by the Modern Language Department. Findings reported in writing and orally to the faculty of the department. Successful completion required for graduation with honors in Spanish.

**SPAN XX99**

**Special Topics (level and credit variable)** Prerequisite: permission of instructor. Elective for majors, minors and teaching fields. Courses of this nature are infrequent or unique topics of study offered occasionally to groups of students to broaden the departmental curriculum, to meet student demand, or to observe special events. Courses of this type may be repeated for credit when topics vary. (By arrangement)

**THEATRE****THRE 1150**

**Dance: Tap or Jazz** Prerequisites: None. Introduction to a major style of dance commonly employed on the stage. The student learns the terminology of dance, practices and performs dance routines, and is required to research and choreograph a routine appropriate for a stage production. This course is a lower level theatre elective primarily for BFA Theatre students with an Acting/Directing focus and may be repeated with the instructor's permission. (Fall and/or Spring as needed) (TCCN DRAM 1110, 1147)

**THRE 1300**

**Introduction to Theatre (3-0)** Prerequisites: None. Fulfills the General Education requirement in Fine Arts. An appreciation course in Theatre dealing with dramatic style, form and production areas. The course is designed to educate the audience of today by bettering their understanding of theatrical art. (Fall and/or Spring as needed) (TCCN DRAM 1310)

**THRE 2150**

**Make-up (0-2)** Prerequisites: None. Required for all Theatre majors. An introduction to stage make-up design and application for actors and theatre technicians. Primary emphasis is on realistic applications but stylization, abstraction, and prosthetics are also examined. Laboratory required. Suitable for non-majors. (Spring) (TCCN DRAM 1141)

**THRE 2210**

**Production I** Prerequisites: None. Designed for interested students. The study, practice, and participation in every phase of dramatic production work and management. Required of Theatre majors and minors. (Fall, Spring, Summer)

**THRE 2320**

**Improving Voice and Diction (3-0)** Prerequisites: None. Designed for teachers, speech and hearing therapists, actors, readers, and public speakers. An introductory study of the speech mechanism and the International Phonetic Alphabet with an emphasis upon improving articulation, pronunciation, and other components of vocal production. (Fall odd years) (TCCN DRAM 2336)

**THRE 2330**

**Acting I (3-0)** Prerequisites: Theatre majors and minors only, or permission of the instructor. Required for all Theatre majors. A study of fundamental techniques and theories of acting. An introduction to the art of acting as an integral part of the students' social and educational milieu and as a means for adequate self expression and personal growth. (Fall) (TCCN DRAM 1351)

**THRE 2340**

**Stagecraft (3-0)** Prerequisites: None. Required of all Theatre majors and minors. A basic course in technical production for the stage. Emphasis placed on scenery construction, rigging, elements of scene painting, basic theatre lighting, and an understanding of the stage space and its functions. (Spring) (TCCN DRAM 1330)

**THRE 2350**

**Costume Construction (3-0)** Prerequisites: None. Required of Design/Technical Focus students and Theatre Arts Education Focus students, but open to anyone interested. An introduction to various aspects of costume construction, including sewing techniques, fabric selection, pattern selection, cutting, and garment alterations. (Spring even years) (TCCN DRAM 1342)

**THRE 3210**

**Production II (0-2)** Prerequisite: THRE 2210. A continuation of Production I. Designed for interested students. The study, practice, and participation in every phase of dramatic production work and management. Required of BFA Theatre majors. (Fall, Spring, Summer.)

**THRE 3310**

**Digital Video Capture and Editing (3-0)** Prerequisites: None. Upper level elective for Theatre majors. An introduction to the techniques of capturing digital video through the use of video cameras and downloading for use in non-linear editing on a computer for a variety of video skills tests including basic editing, applying motion key-frames, titling, transitions, filters, voice-overs, compositing, and chroma-key. Students will create projects including interviews, commercials, music videos, live performances and documentaries. Students will learn how to compress video for use in various formats including video for web sites and digital video disks. Cross-listed as MMA 3310. (Fall and/or Spring as needed)

## Course Descriptions - Undergraduate

### THRE 3320

**Directing I (3-0)** Prerequisites: THRE 2330, 2340. A required course for all majors and minors. A study of basic techniques of directing with emphasis on script analysis, fundamentals of staging, and work with actors. Students must prepare a one-act play or approved cutting from a larger play for production. (Spring.)

### THRE 3325

**Theatre and Fine Arts Management (3-0)** Prerequisites: None. Upper level elective for Theatre majors. Required for BFA in Studio Art, and Multimedia and Graphic Design. A study of the process involved in selecting a space for a theatre or art gallery, raising funds, conducting public relations and publicity, selecting a season, contracting artistic personnel, running a box office, and working with a board of directors in a non-profit organization. (Spring odd years)

### THRE 3330

**Acting II (3-0)** Prerequisite: THRE 2330. Upper level elective for Theatre majors and minors. An introduction to scene analysis and character development. Scenes from modern and contemporary plays are used to help the student understand the application of analysis to performance. Emphasis is placed on the process of creating a role. (Fall even years)

### THRE 3344

**Fundamentals of Lighting Design (3-0)** Prerequisite: THRE 2340. An upper level elective in technical theatre, required for Theatre Arts Education Focus. An exploration of the theories and practices involved in the design of lighting for the theatre. Emphasis will be placed on equipment capabilities, functions and maintenance, script analysis, design theories and application, and the role of the light designer. (Fall even years)

### THRE 3345

**Fundamentals of Scenic Design (3-0)** Prerequisite: THRE 2340. A required course for all Theatre majors. An exploration of the elements and principles of design as they relate to scenery and lighting. Emphasis will be placed on basic graphic skills, art and architectural research, play analysis in terms of spatial relationships on stage, and an introduction to drafting. (Fall odd years)

### THRE 3350

**Theatre History and Dramatic Literature: Greeks to 19<sup>th</sup> Century (3-0)** Prerequisites: None. Required of all Theatre majors and those with Theatre Arts Education Focus. An advanced elective for minors. An historical investigation of early theatre and dramatic literature. (Fall even years)

### THRE 3360

**Creative Drama (3-0)** Prerequisites: None. Upper level elective for Theatre majors and teaching field students. Designed for the student interested in working with children. A study of the goals and techniques of developmental drama with emphasis on pantomime, improvisation, and story dramatization for elementary school children. (Fall, Spring)

### THRE 3365

**Theatre History and Dramatic Literature: 19<sup>th</sup> Century to Present (3-0)** Prerequisites: None. Required of all majors and for Theatre Arts Education Focus. An advanced elective for minors. An historical and critical study of theatre and dramatic literature since the 19th century. (Fall odd years)

### THRE 3370

**Playwriting (3-0)** Prerequisite: Permission of instructor. An upper level elective for majors, minors, teaching field students, and students interested in creative writing. A study in the principles of dramatic construction and practice in the writing of one-act and full length plays. Emphasis is placed on process and skills development in playwriting as well as analysis of the structures of some of the great works of dramatic literature. (Spring odd years)

### THRE 4320

**Advanced Playwriting** Prerequisites: THRE 3370 and senior standing, or permission of instructor. An upper level elective for majors, minors, teaching field students, and those interested in creative writing. Required of BFA Theatre majors with a Creative Writing minor. Advanced study in the principles of dramatic construction and the practice of writing a full length play. Significant emphasis placed on process and planning in the creation of an original script. (Spring even years)

### THRE 4330

**Acting III (3-0)** Prerequisites: THRE 3330, or permission of instructor. Upper level elective for Theatre majors. An exploration of period style as it relates to acting. The continuation of experience in analyzing roles and discovering basic techniques as they apply to the performance of period plays. Scenes from Greek, Elizabethan, Restoration, and other theatrical periods will be used in the study of performance analysis and style. (Fall odd years)

### THRE 4335

**Musical Theatre Practicum (3-0)** Prerequisites: students admitted by audition. An advanced elective for majors and minors devoted to the practical application of theory to musical theatre production. Students learn how to project character through singing and dancing. The work they develop will be presented in one or more public performances. May be repeated for credit in the Bachelor of Fine Arts degrees and the Musical Theatre Minor. (Spring odd years)

### THRE 4340

**Advanced Scenic Design (3-0)** Prerequisite: THRE 3345. An upper level elective for majors and minors. The student will explore the various kinds of stage configurations. Emphasis will be placed on design presentation, including rendering techniques, model building, and conceptualization of design. (As needed)

### THRE 4350

**Costume Design and History (3-0)** Prerequisites: None. An upper level elective for majors and minors which may be taken in lieu of THRE 2350 by Design/Technical Focus students and Theatre Arts Education Focus students. An exploration of the elements and principles of design as they relate to costume design, and an examination of fashion and the history of costumes in the theatre. Special emphasis is placed on script analysis and historical research. (Spring odd years)

### THRE 4363

**American Musical Theatre (3-0)** Prerequisites: None. An advanced elective for majors and minors. An historical and critical study of the development of the American musical including the viewing and discussion of a wide range of musical theatre productions. (Spring even years)

### THRE 4365

**Theatre Arts in the Secondary School (3-0)** Prerequisite: THRE 3320. Required for students with Theatre Arts Education Focus. A study of the essential elements in theatre, criteria for the evaluation of plays, criteria for selection of materials, and techniques for teaching are included. (Spring even years)

**THRE 4390**

**Senior Project in Theatre (3-0)** Prerequisites: Senior standing and approval of the instructor. Required for all majors. Individual study, under the guidance of a member of the faculty, of a specific problem of student's choice. It culminates in an extensive project for a major production in (1) Directing, (2) Acting, (3) Design, (4), playwriting, and serves as a capstone course in theatre. (Fall)

**THRE 4X95**

**Independent Studies (variable credit)** Prerequisites: Senior status, permission of instructor, and of instructor. Upper level elective for majors. A study program arranged between an advanced student and an instructor to provide intensive study in a particular area of interest. The course includes the definition of goals appropriate for the advanced student, ways of attaining those goals, a schedule for frequent consultation, and means of measuring progress. (As needed)

**THRE 4X96\***

**Honors Tutorial (variable credit)** Prerequisites: 21 hours in theatre and admission to the departmental honors program. Designed for the honors student in Theatre; includes extensive reading on a select topic in theatre theory, method, or practice. (By arrangement)

**THRE XX99**

**Special Topics (variable credit)** Prerequisite: Permission of instructor. For majors and minors. A course of study offered occasionally to groups of students to broaden departmental curriculum, to meet student demand, or to observe special events. May be repeated for credit when topics vary. (As needed)

## HERITAGE & CULTURAL TOURISM

**TOUR 3340**

**Heritage Tourism (3-0)** The course will focus on the broad theories and practices of the heritage tourism profession. Topics will include, but are not limited to : destination management; destination development; historic attraction management; site interpretation and development; event management; sustainable tourism; regional tourism and destination marketing; and partner marketing and sponsorships. Requirement for business concentration in heritage tourism. May not be used to fulfill history major, minor, or social studies teaching field requirements. (Fall even years)

**TOUR 4388**

**Heritage Tourism Internship (3-0)** Required for Heritage and Cultural Tourism concentration. The course will focus on the broad theories and practices of the heritage tourism profession. Topics will include, but are not limited to: Destination management; Destination development; Historic attraction management; Site Interpretation and development; Event management; Sustainable tourism; Regional tourism and destination marketing; and Partner marketing and sponsorships. (By arrangement)

## TEXAS COMMON COURSE NUMBERING SYSTEM / MCMURRY EQUIVALENT

TCCN		TITLE	MCM		TITLE
ACCT	2301	Principles of Accounting I-Financial	ACCT	2310	Financial Accounting
ARTS	1301	Art Appreciation	ART	1300	Exploring the Visual Arts
ARTS	1303	Art History I	ART	2301	Art History I
ARTS	1304	Art History II	ART	2302	Art History II
ARTS	1311	Design I (2-Dimensional)	ART	1310	Elements of Design I
ARTS	1312	Design II (3-Dimensional)	ART	2321	Three Dimensional Design
ARTS	1316	Drawing I	ART	2300	Fundamentals of Drawing
ARTS	1317	Drawing II	ART	2304	Creative Drawing
ARTS	2311	Design III	ART	2321	Three-Dimensional Design
ARTS	2316	Painting I	ART	2310	Painting I
ARTS	2346	Ceramics I	ART	1313	Basic Pottery
ARTS	2356	Photography I (Fine Arts Emphasis)	ART	2323	Fundamentals of Photography
BCIS	1305	Business Computer Applications	CIS	1315	Computer Fluency
BIOL	1306	Biology for Science Majors I	BIMS	1300	Introduction to Scientific Research
BIOL	1307	Biology for Science Majors II	BIOL	1301	Biology of Unicellular Organisms
BIOL	1408	Biology for Non-Science Majors I	BIOL	1401	Principles of Biology
BIOL	1411	General Botany	BIOL	1402	Biology of Plants
BIOL	1413	General Zoology	BIOL	1403	Biology of Animals
BIOL	2401	Anatomy & Physiology I	BIOL	2401	Anatomy & Physiology I
BIOL	2402	Anatomy & Physiology II	BIOL	2402	Anatomy & Physiology II
BUSI	1301	Business Principles	BA	1310	Contemporary Business
CHEM	1405	Introductory Chemistry I	CHEM	1400	Chemistry in Society
CHEM	1406	Introductory Chemistry I (Primarily Allied Health Sci)	CHEM	1405	Survey of General and Organic Chemistry
CHEM	1408	Introductory Chemistry II (Primarily Allied Health Sci)	CHEM	1406	Survey of Organic and Biochemistry
CHEM	1411	General Chemistry I	CHEM	1410	General Chemistry I
CHEM	1412	General Chemistry II	CHEM	1420	General Chemistry II
CHEM	2401	Analytical Chemistry I	CHEM	2430	Quantitative Analysis
COSC	1301	Microcomputer Applications	CIS	1315	Computer Information Systems
COSC	1315	Fundamentals of Programming	CSC	1325	Fundamentals of Computer Science
DANC	1110	Tap I	THRE	1150	Dance: Tap
DANC	1147	Jazz Dance I	THRE	1150	Dance: Jazz
DRAM	1141	Makeup	THRE	2150	Make-Up
DRAM	1310	Introduction to Theater	THRE	1300	Introduction to Theatre
DRAM	1330	Stagecraft I	THRE	2340	Stagecraft
DRAM	1342	Introduction to Costume	THRE	2350	Costume Construction
DRAM	1351	Acting I	THRE	2330	Acting I
DRAM	2220	Theater Practicum III	THRE	2210	Production I
DRAM	2336	Voice for the Theater	THRE	2320	Improving Voice & Diction
ECON	2301	Principles of Macroeconomics	ECON	2310	Principles of Macroeconomics
ECON	2302	Principles of Microeconomics	ECON	2320	Principles of Microeconomics
ENGL	1301	Composition I	ENG	1310	Composition & Rhetoric
ENGL	1302	Composition II	ENG	1320	Composition & Literature
ENGL	2321	British Literature (1 semester course)	ENG	2310	Masterpieces of British Literature
ENGL	2322	British Literature I	ENG	2310	Masterpieces of British Literature
ENGL	2323	British Literature II	ENG	2310	Masterpieces of British Literature
ENGL	2326	American Literature (1 semester course)	ENG	2320	Masterpieces of American Literature
ENGL	2327	American Literature I	ENG	2320	Masterpieces of American Literature

## TEXAS COMMON COURSE NUMBERING SYSTEM / MCMURRY EQUIVALENT

TCCN		TITLE	MCM		TITLE
ENGL	2328	American Literature II	ENG	2320	Masterpieces of American Literature
ENGL	2331	World Literature (1 semester course)	ENG	2330	Masterpieces of World Literature
ENGL	2332	World Literature I	ENG	2330	Masterpieces of World Literature
ENGL	2333	World Literature II	ENG	2330	Masterpieces of World Literature
ENGL	2341	Forms of Literature (1 semester course)	ENGL	2350	Topics in Literary Study
ENGL	2342	Forms of Literature I (1st sem;2 sem seq)	ENGL	2350	Topics in Literary Study
ENGL	2343	Forms of Literature II (2nd sem;2 sem seq)	ENGL	2350	Topics in Literary Study
FREN	1311	Beginning French I	FREN	1410	Elementary French I
FREN	1412	Beginning French II	FREN	1420	Elementary French II
FREN	2311	Intermediate French I	FREN	2310	Intermediate French I
FREN	2312	Intermediate French II	FREN	2320	Intermediate French II
GEOL	1403	Physical Geology	GEOS	1410	Physical Geology
GEOL	1405	Environmental Geology	GEOS	1405	Environmental Geology
GEOL	1447	Meteorology	GEOS	2420	Meteorology
GERM	1411	Beginning German I	GERM	1410	Elementary German I
GERM	1412	Beginning German II	GERM	1420	Elementary German II
GERM	2311	Intermediate German I	GERM	2310	Intermediate German I
GERM	2312	Intermediate German II	GERM	2320	Intermediate German II
GOVT	2305	Federal Government (Federal Const & Topics)	PSC	2310	American National Government
GOVT	2306	Texas Government (Texas Const & Topics)	PSC	2320	State Government
HIST	1301	United States History I	HIST	2310	United States To 1877
HIST	1302	United States History II	HIST	2320	United States Since 1865
HIST	2321	World Civilizations I	HIST	1310	World Civilization To 1500
HIST	2322	World Civilizations II	HIST	1320	World Civilization Since 1500
MATH	1314	College Algebra	MATH	1311	College Algebra
MATH	1316	Plane Trigonometry	MATH	1312	Trigonometry
MATH	1332	Contemporary Mathematics I	MATH	1315	Contemporary Mathematics
MATH	1333	Contemporary Mathematics II	MATH	1315	Contemporary Mathematics
MATH	2305	Discrete Mathematics	MATH	2315	Discrete Mathematics
MATH	2312	Precalculus Math	MATH	1320	Pre-calculus
MATH	2314	Calculus II	MATH	2322	Calculus II
MATH	2318	Linear Algebra	MATH	2340	Linear Algebra
MATH	2413	Calculus I	MATH	2421	Calculus I
MUSI	1181	Piano Class I	MUA	1113	Class Piano
MUSI	1182	Piano Class II	MUA	1114	Class Piano
MUSI	1306	Music Appreciation	MLH	2301	Music Appreciation
MUSI	1311	Music Theory I	MTH	1330	Theory I
MUSI	1312	Music Theory II	MTH	1340	Theory II
MUSI	2181	Piano Class III	MUA	1115	Class Piano III
MUSI	2182	Piano Class IV	MUA	1116	Class Piano IV
PHED	2356	Care & Prevention of Athletic Injuries	KINE	2335	Accident Prevention & Care of Injuries
PHIL	1301	Introduction to Philosophy	PHIL	2350	Introduction to Philosophy
PHIL	1304	Introduction to World Religions	REL	2350	Religions of the World
PHIL	2303	Introduction to Logic	PHIL	2360	Logic
PHIL	2306	Introduction to Ethics	SLD	1300	Introduction to Ethics
PHYS	1401	College Physics I	PHYS	1410	General Physics I
PHYS	1402	College Physics II	PHYS	1420	General Physics II

**TEXAS COMMON COURSE NUMBERING SYSTEM / MCMURRY EQUIVALENT**

<b>TCCN</b>		<b>TITLE</b>	<b>MCM</b>		<b>TITLE</b>
PHYS	1410	Elementary Physics (1 semester course)	PHYS	1400	Introduction to Physics
PHYS	1411	Introductory Astronomy I	PHYS	1401	Astronomy
PHYS	1412	Introductory Astronomy II	PHYS	1401	Astronomy
PSYC	2301	General Psychology	PSYC	1340	Introduction To Psychology
PSYC	2314	Lifespan Growth & Development	PSYC	2360	Developmental Psychology: The Human Life Cycle
SPCH	1311	Introduction to Speech Communication	COMM	1310	Principles of Communication
SPCH	2335	Argumentation & Debate	COMM	2350	Argumentation & Advocacy
SOCI	1301	Introductory Sociology	SOC	2300	Introduction to Sociology
SOCI	1306	Social Problems	SOC	2350	Social Problems
SPAN	1411	Beginning Spanish I	SPAN	1410	Elementary Spanish I
SPAN	1412	Beginning Spanish II	SPAN	1420	Elementary Spanish II
SPAN	2311	Intermediate Spanish I	SPAN	2310	Intermediate Spanish I
SPAN	2312	Intermediate Spanish II	SPAN	2320	Intermediate Spanish II
SPCH	1315	Public Speaking	COMM	1310	Principles of Communication
SPCH	1321	Business & Professional Communication	COMM	2330	Business & Professional Communication

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