



**2016 - 2017**

**Undergraduate Minors and Certificates**

---

# MINORS

## College of Business and Entrepreneurship

|   |   |
|---|---|
| Business Administration .....             | 1 |
| Economics .....                           | 2 |
| Human Resource Management .....           | 3 |
| Information Systems .....                 | 4 |
| Management.....                           | 5 |
| Marketing.....                            | 6 |
| Sustainable Supply Chain Management ..... | 7 |

## College of Education and P-16 Integration

|  |    |
|--|----|
| Early Care And Early Childhood Studies.....      | 8  |
| Educational Technology.....                      | 9  |
| Leadership Studies .....                         | 10 |
| Reading .....                                    | 11 |
| Special Education .....                          | 12 |
| Technology Education And Corporate Training..... | 13 |

## College of Engineering and Computer Science

|                                 |    |
|---------------------------------|----|
| Computer Engineering.....       | 14 |
| Computer Science .....          | 15 |
| Electrical Engineering.....     | 16 |
| Engineering Physics.....        | 17 |
| Manufacturing Engineering ..... | 18 |
| Mechanical Engineering.....     | 19 |

## College of Fine Arts

|                     |    |
|---------------------|----|
| Art History.....    | 20 |
| Art .....           | 21 |
| Dance .....         | 22 |
| Graphic Design..... | 23 |
| Music.....          | 24 |

|              |    |
|--------------|----|
| Theatre..... | 25 |
|--------------|----|

## **College Of Health Affairs**

---

|                                  |    |
|----------------------------------|----|
| Addiction Studies .....          | 26 |
| Health.....                      | 27 |
| Health Services Technology ..... | 28 |
| Kinesiology .....                | 29 |
| Rehabilitation.....              | 30 |

## **Honors College**

---

|                              |    |
|------------------------------|----|
| Honors Program Track 1 ..... | 31 |
| Honors Program Track 2 ..... | 32 |
| Honors Program Track 3 ..... | 33 |

## **College of Liberal Arts**

---

|  |    |
|--|----|
| Anthropology .....                                   | 34 |
| Communication Studies.....                           | 35 |
| Communication.....                                   | 36 |
| Criminal Justice .....                               | 37 |
| English As A Second Language Instruction (7-12)..... | 38 |
| English .....  | 39 |
| Environmental Studies.....                           | 40 |
| Film Studies.....                                    | 41 |
| Folklore .....                                       | 42 |
| French Language, Literature, And Culture.....        | 43 |
| French Teaching, Translation, And Culture.....       | 44 |
| Gender And Women’s Studies.....                      | 45 |
| Global Security Studies .....                        | 46 |
| History.....   | 47 |
| Latin American Studies .....                         | 48 |
| Legal Studies .....                                  | 49 |
| Mass Communication .....                             | 50 |
| Medical Humanities .....                             | 51 |
| Medical Spanish.....                                 | 52 |

|                               |    |
|-------------------------------|----|
| Mexican American Studies..... | 53 |
| Military Science.....         | 54 |
| Philosophy.....               | 55 |
| Political Science.....        | 56 |
| Psychology .....              | 57 |
| Public Administration.....    | 58 |
| Religious Studies .....       | 59 |
| Sociology.....                | 60 |
| Spanish Translation.....      | 61 |
| Spanish.....                  | 62 |

## **College of Sciences**

|                                      |    |
|--------------------------------------|----|
| Applied Mathematics.....             | 64 |
| Astronomy .....                      | 65 |
| Biochemistry .....                   | 66 |
| Biology .....                        | 67 |
| Chemistry.....                       | 68 |
| Environmental Sciences.....          | 69 |
| Geographic Information Systems ..... | 70 |
| Geology And Earth Science .....      | 71 |
| Middle School Mathematics .....      | 72 |
| Nanotechnology.....                  | 73 |
| Physical Science .....               | 74 |
| Physics.....                         | 75 |
| Pure Mathematics.....                | 76 |
| Secondary School Mathematics.....    | 77 |
| Statistics.....                      | 78 |

## **CERTIFICATES**

### **College of Fine Arts**

|   |    |
|---|----|
| Creative Writing.....                         | 79 |
| Performance With Mariachi Concentration ..... | 80 |



**A – MINOR REQUIREMENTS – 18 HOURS (6 advanced minimum)**

**1 – Business Administration Core – 9 hours (3 advanced)**

ACCT 2301 Introduction to Financial Accounting  
ACCT 2302 Introduction to Managerial Accounting  
MGMT 3361 Principles of Management

**2 – Business Administration Electives – 9 hours (3 advanced minimum)**

*Choose from:*

INFS 2300 Data Modeling Management Tools  
ECON 2301 Principles of Macroeconomics  
FINA 3380 Introduction to Finance  
MARK 3300 Principles of Marketing

*Choose one (Ethics):*

MARK 3330 Business Ethics and Corporate Social Responsibility  
ACCT 4350 Ethics for Accountants  
MGMT 4304 Business and Society

**ECONOMICS  
MINOR**

2016-2017  
College of Business and Entrepreneurship  
Economics and Finance

---

**A – MINOR REQUIREMENTS – 18 HOURS (12 advanced)**

**1 – Economics Core – 12 hours (6 advanced)**

ECON 2301 Principles of Macroeconomics

ECON 2302 Principles of Microeconomics

ECON 3351 Macroeconomic Theory

ECON 3352 Microeconomic Theory

**2 – Economics Electives – 6 hours (6 advanced)**

*Choose 6 hours of advanced ECON electives.*

**A – MINOR REQUIREMENTS – 18 HOURS (18 advanced)**

*A minor in human resource management is designed to complement many students' majors, enhancing their marketability upon graduation. Students majoring in such fields as psychology, communication, nursing, counseling, engineering and political science may be especially interested in this minor.*

**1 – Human Resource Management – 15 hours (15 advanced)**

MGMT 3362 Human Resource Management  
MGMT 3365 Compensation  
MGMT 3366 Recruitment and Selection  
MGMT 3367 Organizational Training and Development  
MGMT 4321 Organizational Behavior

**2 – Human Resource Management Elective – 3 hours (3 advanced)**

*Choose from:*

MGMT 3300 Internship in Management  
MGMT 3335 Communication Policy and Strategy  
MGMT 3368 Negotiations



**A – MINOR REQUIREMENTS – 18 HOURS MINIMUM (6 advanced minimum)**

*The minor in information systems consists of 18 hours of INFS coursework as specified below.*

*With the approval of the department chair, students who have taken equivalent programming and information technology courses may take any combination of six advanced INFS courses.*

*Students with no programming and information technology academic background may take any combination of 4 more INFS advanced courses after taking:*

INFS 3308 Business Information Infrastructure  
INFS 3310 Introduction to Business Programming

*NOTE: All INFS core and elective courses have INFS 3308 and INFS 3310 as prerequisites.*

**A – MINOR REQUIREMENTS – 18 HOURS (18 advanced)**

*A minor in Management will provide students with the knowledge, skills, and practices essential for managing in all types of organizations, including nonprofit organizations, and may enhance the marketability of students seeking employment, regardless of primary major.*

**1 – Management Core – 9 hours (9 advanced)**

MGMT 3361 Principles of Management  
MGMT 3362 Human Resource Management  
MGMT 4321 Organizational Behavior

**2 – Advanced Management Electives – 9 hours (9 advanced)**

*Choose from:*

MGMT 3300 Internship in Management  
MGMT 3335 Communication Policy and Strategy  
MGMT 3365 Compensation  
MGMT 3366 Recruitment and Selection  
MGMT 3367 Organizational Training and Development  
MGMT 3368 Negotiations  
MGMT 4300 Topics in Management  
MGMT 4304 Business and Society  
MGMT 4311 International Management  
MGMT 4351 Entrepreneurship in the Border Corridor  
MGMT 4356 Foundations of Entrepreneurship  
MGMT 4362 Business and Sustainability  
MGMT 4363 Operations Management  
MGMT 4365 Quality Management  
MGMT 4367 Purchasing and Supply Chain Management  
MGMT 4370 Project Management  
MGMT 4399 Business Consulting

**A – MINOR REQUIREMENTS – 18 HOURS (6 advanced)**

**1 – Marketing Core – 6 hours (6 advanced)**

MARK 3300 Principles of Marketing  
MARK 3340 Consumer Behavior

**2 – Marketing Electives – 12 hours**

*Choose 12 hours of MARK electives.*

**A – MINOR REQUIREMENTS – 18 HOURS (18 advanced)**

*A minor in Sustainable Supply Chain Management will provide students with the knowledge, skills and practices essential for operational decision making from a sustainability perspective. All three aspects of sustainability – economic, social and environmental – are emphasized. Graduates may be employed in either manufacturing or service organizations in the areas of supply chain, distribution, retail operations, or environmental management.*

**1 – Sustainable Supply Chain Core – 15 hours (15 advanced)**

MGMT 4362 Business and Sustainability  
MGMT 4363 Operations Management  
MGMT 4365 Quality Management  
MGMT 4367 Purchasing and Supply Chain Management  
MGMT 4370 Project Management

**2 – Advanced Sustainable Supply Chain Elective – 3 hours (3 advanced)**

*Choose from:*

MGMT 3300 Internship in Operations Management  
MGMT 3335 Communication Policy and Strategy  
MGMT 3368 Negotiations  
MGMT 4311 International Management

**EARLY CARE AND EARLY CHILDHOOD STUDIES  
MINOR**

2016-2017  
College of Education and P-16 Integration  
Human Development and School Services

---

**A – MINOR REQUIREMENTS – 18 HOURS (15 advanced)**

**1 – Early Care and Early Childhood Studies Core – 12 hours (9 advanced)**

*Choose one:*

- ECEC 2301 Foundations of Early Care and Development
- ECEC 2310 Quality Programs for Infants and Toddlers
- ECEC 3308 Quality and Developmentally Appropriate Environments for Children Ages 0-5
- ECEC 3305 Role of Play in Early Care and Early Education
- ECEC 4311 Observing, Assessing and Guiding Behavior of Young Children

**2– Early Care and Early Childhood Studies Electives – 6 hours (6 advanced)**

*Choose from:*

- ECEC 3303 Early Literacy Development During Early Childhood
- ECEC 3304 Science Curriculum for Young Children
- ECEC 3307 Knowledge and Skills of Preschool Teachers: Profession, Standard, & Ethics
- ECEC 4306 Aesthetic Development in Early Care and Early Education
- ECEC 4312 Administration of Child Development Centers
- ECEC 4313 Multicultural Perspectives in Early Care and Early Education

**EDUCATIONAL TECHNOLOGY  
MINOR**

2016-2017  
College of Education and P-16 Integration  
Teaching and Learning

---

**A – MINOR REQUIREMENTS – 18 HOURS (6 advanced)**

*Choose 18 hours of Educational Technology (EDTC), of which 6 hours must be advanced.*

**LEADERSHIP STUDIES  
MINOR**

2016-2017  
College of Education and P-16 Integration  
Teaching and Learning

---

The minor in Leadership Studies allows for the exploration and study of leadership philosophies, theories and practices for the purpose of building interpersonal, group management, problem solving, critical thinking, decision making, motivation and communication skills through the study of leadership as a reflective process. Courses include service learning opportunities, and practical application opportunities. The Leadership Studies minor complements all majors and degree programs.

**A – MINOR REQUIREMENTS – 18 HOURS (18 advanced)**

- LDST 1301 Introduction to Leadership Studies
- LDST 2333 Leadership Skills Development
- LDST 2334 Personal and Organizational Leadership
- LDST 2335 Leadership for Community Engagement
- LDST 3325 Leadership, Diversity and Culture
- LDST 3327 Special Topics in Leadership

**READING  
MINOR**

2016-2017  
College of Education and P-16 Integration  
Bilingual and Literacy Studies

---

**A – MINOR REQUIREMENTS – 18 HOURS (18 advanced)**

*Choose 18 hours of Reading (READ) from the following:*

- READ 3320 Early Literacy Development
- READ 3324 Reading Comprehension and Assessment
- READ 3350 Literature and Disciplinary Learning in the Elementary School
- READ 4340 Reflective Reading and Writing Assessment
- READ 4341 Media Literacies for Secondary ELA/R Teachers
- READ 4342 Narrative and Expository Analysis and Critical Literacy
- READ 4343 Literacy, Culture, and Diverse Learners
- READ 4344 Writing Methods, Inquiry, and Study Skills for ELA/R Teachers



**SPECIAL EDUCATION  
MINOR**

2016-2017  
College of Education and P-16 Integration  
Human Development and School Services

---

**A – MINOR REQUIREMENTS – 18 HOURS (18 advanced)**

- SPED 4310 Inclusion and Differentiated Instruction in Special Education
- SPED 3390 Introduction to Exceptional Children
- SPED 4330 Language and Literacy Development of Diverse Exceptional Learners
- SPED 4350 Assessing Exceptional Learners
- SPED 4370 Instructional Methods for Students with Low Incidence Disabilities
- SPED 4380 Instructional Methods for Students with Learning Disabilities

**TECHNOLOGY EDUCATION AND CORPORATE TRAINING  
MINOR**

2016-2017  
College of Education and P-16 Integration  
Teaching and Learning

---

**A – MINOR REQUIREMENTS – 18 HOURS (6 advanced)**

*Choose 18 hours of Technology Education and Corporate Training (TECT), of which 6 hours must be advanced.*

**COMPUTER ENGINEERING  
MINOR**

2016-2017  
College of Engineering and Computer Science  
Electrical Engineering

---

**A – MINOR REQUIREMENTS – 22 HOURS (6 advanced)**

**1 – Computer Engineering Core – 16 hours**

CMPE 1101 Introduction to Computer Engineering  
CMPE 1370 Engineering Computer Science I (or CSCI 1370)  
CMPE 1170 Engineering Computer Science I Laboratory (or CSCI 1170)  
CMPE 2330 Digital Systems Engineering I (or ELEE 2330)  
CMPE 2130 Digital Systems Engineering I Lab (or ELEE 2130)  
CMPE 2380 Computer Science II  
CMPE 2320 Electric Circuits I  
CMPE 2120 Electric Circuits I Lab

**2 – Computer Engineering Electives – 6 hours (6 advanced)**

*Choose 6 hours of advanced CMPE courses.*

**COMPUTER SCIENCE  
MINOR**

2016-2017  
College of Engineering and Computer Science  
Computer Science

---

**A – MINOR REQUIREMENTS – 20 HOURS (12 advanced)**

**1 – Computer Science Core – 11 hours (3 advanced)**

CSCI 1101 Introduction to Computer Science  
CSCI 1370 Engineering Computer Science I (or CSCI 1378)  
CSCI 1170 Engineering Computer Science I Laboratory  
CSCI 2380 Computer Science II  
CSCI 3333 Algorithms and Data Structures

**2 – Advanced Computer Science Electives – 9 hours (9 advanced)**

*Choose 9 hours of advanced Computer Science courses.*

**A – MINOR REQUIREMENTS – 18 HOURS (7 advanced minimum)**

*This minor is suitable for students who wish to have a general introduction to applications of electricity and electronics.*

**1 – Electrical Engineering Core – 12 hours (4 advanced)**

ELEE 2305 Electric Circuits I  
ELEE 2105 Electric Circuits I Lab  
ELEE 2330 Digital Systems Engineering I  
ELEE 2130 Digital Systems Engineering I Lab  
ELEE 3301 Electronics I  
ELEE 3101 Electronics I Lab

**2 – Electrical Engineering Electives – 6 hours (3 advanced minimum)**

*Choose 6 hours of ELEE courses, of which at least 3 hours must be advanced.*

*Note: Students who take courses equivalent or similar to those in the elective engineering core (CMPE 2320, CMPE 2120, CMPE 2330, CMPE 2130, or CMPE 3403) as part of their major may not count them toward the minor. These students should instead take additional electrical engineering elective courses, to make a total of 18 hours, of which at least 7 hours must be advanced.*

**A – MINOR REQUIREMENTS – 23 HOURS (7 advanced minimum)**

*This minor is suitable for STEM students who wish to have a general introduction to applications of engineering. Minor criteria: completion of MATH 2414 Calculus II (or MATH 2488 Honors) and PHYS 2426 Physics for Scientists and Engineers II. A grade of 'C' or better is required for ENGR 2301 and ENGR 2305/2105.*

**1 – Engineering Physics Core – 17 hours (7 advanced)**

MATH 3341 Differential Equations  
ENGR 2301 Engineering Mechanics I: Statics  
ENGR 2302 Engineering Mechanics II: Dynamics  
ENGR 2305 Linear Circuits  
ENGR 2105 Linear Circuits Lab  
ENGR 3321 Electronics I  
ENGR 3121 Electronics I Lab

**2 – Engineering Physics Electives – 6 hours**

*Choose from:*

ENGR 1304 Engineering Graphics I  
ENGR 2342 Renewable Energy Fundamentals  
ENGR 2330 Digital Systems I  
ENGR 2130 Digital Systems I Lab  
ENGR 3304 Mechanics of Materials  
ENGR 3331 Digital VLSI Circuits  
ENGR 3330 Linear Signals and Systems  
ENGR 2340 Engineering Materials  
ENGR 2140 Engineering Materials Lab  
ENGR 4322 Electronics II  
ENGR 4326 Power Electronics  
ENGR 4406 Engineering Mechanics III: Fluid Mechanics

**A – MINOR REQUIREMENTS – 18 HOURS (15 advanced)**

*This minor provides a background in manufacturing engineering. It is intended to support business majors and other engineering majors and will be especially valuable for those who will be involved in manufacturing enterprises. It requires 18 hours in engineering, of which 6 hours must be advanced. The minor requires certain support courses as prerequisites. Check with the department for more information.*

**1 – Manufacturing Engineering Core – 9 hours (6 advanced)**

MANE 2332 Engineering Statistics  
MANE 3364 Manufacturing Processes  
MANE 3340 Fundamentals of Industrial Engineering

**2 – Advanced Manufacturing Engineering Electives – 9 hours (9 advanced)**

*Choose:*

MANE 3300 Computer-Aided Design  
MANE 3302 Computer-Aided Manufacturing  
MANE 4311 Quality Control  
MANE 4340 Operations Research  
MANE 4331 Manufacturing Planning and Control  
MANE 4352 Manufacturing Simulation

**MECHANICAL ENGINEERING  
MINOR**

2016-2017  
College of Engineering and Computer Science  
Mechanical Engineering

---

**A – MINOR REQUIREMENTS – 18 HOURS (11 advanced)**

**1 – Mechanical Engineering Core – 18 hours (11 advanced)**

MECE 2335 Thermodynamics I  
MECE 2140 Engineering Materials Lab  
MECE 2340 Engineering Materials  
MECE 3315 Fluid Mechanics  
MECE 3115 Fluid Mechanics Laboratory  
MECE 3336 Thermodynamics II  
MECE 3360 Heat Transfer  
MECE 3160 Heat Transfer Laboratory



**A – MINOR REQUIREMENTS – 18 HOURS (12 advanced)**

**1 – Art History Core – 6 hours**

ARTS 1303 Art History I  
ARTS 1304 Art History II

**2 – Advanced Art Electives – 12 hours (12 advanced)**

*Choose 12 hours of advanced Art History courses, which can include:*

ARTS 3350 Pre-Hispanic Mesoamerican Art and Architecture  
ARTS 3351 Andean Pre-Hispanic Art and Architecture  
ARTS 3352 Art and Architecture of Asia, Africa and Oceania  
ARTS 3353 Italian Renaissance Art, 1415-1595  
ARTS 3354 History of Graphic Design  
ARTS 3355 History of Spanish Architecture, 711 to 1780 A.D.  
ARTS 3356 Mexican Viceregal Art and Architecture  
ARTS 3357 South American Viceregal Art and Architecture  
ARTS 3358 Nineteenth-Century European Art History  
ARTS 3359 History of Women in Art  
ARTS 4350 Modern Art History  
ARTS 4351 American Art  
ARTS 4352 Latin American Art and Architecture  
ARTS 4353 History of Photography  
ARTS 4354 Modern Mexican Art, 1785-1940  
ARTS 4355 Modern Mexican Art Since 1940  
ARTS 4356 Modern Art of South America and the Caribbean  
ARTS 4357 Latin@ Art History  
ARTS 4358 Research Methods in Latin American Art and Architectural History

---

**A – MINOR REQUIREMENTS – 18 HOURS (6 advanced)**

**1 – Art Core – 6 hours**

ARTS 1311 Design I  
ARTS 1316 Drawing I

**2 – Art Electives – 6 hours**

*Choose from:*

ARTS 1312 Design II  
ARTS 1317 Drawing II  
ARTS 2316 Painting I  
ARTS 2317 Painting II  
ARTS 2326 Sculpture I  
ARTS 2327 Sculpture II  
ARTS 2333 Printmaking I  
ARTS 2334 Printmaking II  
ARTS 2341 Beginning Jewelry/Metalworking  
ARTS 2348 Digital Media  
ARTS 2346 Ceramics I  
ARTS 2347 Ceramics II  
ARTS 2356 Photography I  
ARTS 2357 Photography II  
ARTS 2361 Computer Imaging I  
ARTS 2362 Computer Imaging II

**3 – Advanced Art Electives – 6 hours (6 advanced)**

*Choose from:*

ARTS 3303 Intermediate Jewelry/Metalworking^  
ARTS 3311 Intermediate Drawing^  
ARTS 3321 Intermediate Painting^  
ARTS 3330 Image and Illustration  
ARTS 3332 Digital Image  
ARTS 3334 Photography as an Art Form\*  
ARTS 3339 Professional Photographic Documentation  
ARTS 3340 Foundry Studies in Sculpture^  
ARTS 3341 Intermediate Sculpture^  
ARTS 3342 Introduction to Installation and Performance Art Concepts  
ARTS 3361 Intermediate Printmaking^  
ARTS 3371 Intermediate Ceramics^  
ARTS 4303 Advanced Jewelry/Metalworking\* ARTS 4311 Advanced Drawing\*  
ARTS 4321 Advanced Painting\*  
ARTS 4331 Advanced Computer Imaging\*  
ARTS 4337 Digital Photography\*  
ARTS 4341 Advanced Sculpture\*  
ARTS 4361 Advanced Printmaking\* ARTS 4371 Advanced Ceramics\*  
ARTS 4388 Special Topics in Studio Art#  
ARTS 4391 Individual Problems/Internship/Co-op\*  
ARTS 4392 Individual Problems  
ARTS 4393 2-D Experimental Art  
ARTS 4394 3-D Experimental Art

^ May be repeated twice for a total of 9 hours.

\* May be repeated three times for a total of 12 hours.

# May be repeated once for a total of 6 hours if the topics are substantively different.

**A – MINOR REQUIREMENTS– 22 HOURS MINIMUM (10 advanced minimum)**

**1 – Dance Core – 12 hours minimum (6 advanced minimum)**

DANC 1202 Dance Improvisation

*Choose one:*

DANC 2112 Beginning /Intermediate Dance Performance

DANC 3112 Intermediate/Advanced Dance Performance

DANC 3308 Dance History

DANC 3311 Dance Production

*Choose one:*

DANC 2303 Music for Dancers

DANC 3312 Dance Philosophy and Criticism

DANC 3313 World Dance

DANC 3320 Dance Science and DANC 3121 Dance Science Lab

**2 – Dance Technique – 10 hours (4 advanced)**

*Complete 4 hours from two different techniques, of which one area must be ballet or modern. Two hours must be completed from one of the remaining technique areas: ballet, folklorico, flamenco, or modern dance. A minimum of one year is required at each level and/or faculty approval to advance. Choose from the following courses:*

DANC 2341 Ballet I

DANC 2242 Ballet I

DANC 2244 Ballet Technique: Pointe I

DANC 2345 Modern Dance I

DANC 2246 Modern Dance I

DANC 2349 Folklorico I

DANC 2250 Folklorico I

DANC 2353 Flamenco I

DANC 2254 Flamenco I

DANC 3130 Ballet Technique: Variations

DANC 3341 Ballet II

DANC 3242 Ballet II

DANC 3244 Ballet Technique: Pointe II

DANC 3345 Modern Dance II

DANC 3246 Modern Dance II

DANC 3349 Folklorico II

DANC 3250 Folklorico II

DANC 3353 Flamenco II

DANC 3254 Flamenco II

DANC 4341 Ballet III

DANC 4242 Ballet III

DANC 4345 Modern Dance III

DANC 4246 Modern Dance III

DANC 4349 Folklorico III

DANC 4250 Folklorico III

DANC 4353 Flamenco III

DANC 4254 Flamenco III

**A – MINOR REQUIREMENTS – 18 HOURS (6 advanced)**

**1 – Graphic Design Core – 12 hours**

ARTS 1311 Design I  
ARTS 2313 Design Communications I  
ARTS 2314 Design Communications II  
ARTS 2363 Typography

**2 – Advanced Graphic Design Electives – 6 hours (6 advanced)**

*Choose from:*

ARTS 3331 Visual Communications  
ARTS 3333 Design and Production  
ARTS 3337 Design Type  
ARTS 4333 Graphic Design I  
ARTS 4334 Graphic Design II  
ARTS 4336 Multimedia Production and Design  
ARTS 4338 Interactive Design

**A – MINOR REQUIREMENTS – 19 HOURS (6 advanced)**

*Students must pass an audition prior to beginning music program. A grade of 'C' or better is required for all music courses.*

**1 – Music Core – 7 hours**

MUSI 1211 Music Theory I  
MUSI 1116 Sight Singing and Ear Training I  
MUSI 1212 Music Theory II  
MUSI 1117 Sight Singing and Ear Training II  
MUSI 1114 Piano for Music Majors I

**2 – Applied Major Instrument – 4 hours (2 advanced)**

MUAP 12xx Applied Major Instrument  
MUAP 32xx Applied Major Instrument

**3 – Music Ensembles – 2 hours (1 advanced)**

*Choose one:*

MUEN 1121 Wind Ensemble  
MUEN 1122 University Concert Band or Marching Band  
MUEN 1123 Symphony Orchestra  
MUEN 1124 Guitar Ensemble  
MUEN 1141 Master Chorale  
MUEN 1142 University Choir

*Choose one:*

MUEN 3121 Wind Ensemble  
MUEN 3122 University Concert Band or Marching Band  
MUEN 3123 Symphony Orchestra  
MUEN 3124 Guitar Ensemble  
MUEN 3141 Master Chorale  
MUEN 3142 University Choir

**4 – Restricted Music Electives – 3 hours**

*Choose from:*

MUSI 1306 Music Appreciation  
MUSI 1307 Mexican Folk Music  
MUSI 1308 Music History and Literature I  
MUSI 1309 World Music Cultures  
MUSI 1310 History of Rock

**5 – Advanced Music Elective – 3 hours (3 advanced)**

*Choose 3 hours from any advanced Music course.*

**A – MINOR REQUIREMENTS – 18 HOURS (9 advanced)**

*The Theatre/Television/Film Minor will require a student to take a total of 18 hours in THTF, of which 9 must be advanced. All classes in the theatre minor must be completed with a grade of 'C' or higher.*

**1 – Theatre Core – 9 hours (3 advanced)**

THTF 1351 Acting I  
THTF 1310 Theatre Appreciation  
THTF 4311 Directing I

**2 – Theatre Electives – 9 hours (6 advanced)**

*Choose from any THTF classes, with the exception of THTF 2120 Practicum Theatre Television Film and THTF 4120 Practicum Theatre Television Film.*

**ADDICTION STUDIES  
MINOR**

2016-2017  
College of Health Affairs  
School of Rehabilitation Services and Counseling

---

*The field of rehabilitation is dedicated to assisting individuals, primarily adults, with disabilities to live full and independent lives. With this minor degree option, non-Rehabilitative Services majors can complete the addictions track. Students will be trained in addictive behaviors with a focus on substance abuse. The curriculum is designed to meet the educational requirements for the state of Texas Licensed Chemical Dependency Counselor designation with the exception of the supervised field experience required of licensure; graduates are encouraged to obtain this licensure.*

**A – MINOR REQUIREMENTS – 18 HOURS (15 advanced)**

**1 – Addiction Studies Core – 18 hours (15 advanced)**

REHS 2321 Introduction to Addiction Studies  
REHS 3303 Case Management I  
REHS 3340 Intermediate Aspects of Addiction Studies  
REHS 3350 Prevention of Addictive Behaviors  
REHS 4340 Clinical Issues in Addiction Studies  
REHS 4345 Culture and Family in Addiction Studies

**A – MINOR REQUIREMENTS – 18 HOURS (6 advanced)**

**1 – Health Core – 9 hours (6 advanced)**

HLTH 2352 Personal Health  
HLTH 3350 Organization of the Health Program  
HLTH 4380 Principles of Public Health (Capstone)

**2 – Health Electives – 9 hours**

*Choose from:*

HLTH 1352 Community and Environmental Health  
KINE 1306 First Aid and First Responder  
HLTH 2373 Growth, Development, and Fitness  
HLTH 3370 Concepts for Healthy Lifestyle Promotion  
HLTH 3371 Health Problems in Alcohol, Tobacco, and Narcotics  
HLTH 3372 Nutrition and Health  
HLTH 3374 Human Disease  
HLTH 3375 Consumer Health  
HLTH 4357 Health Seminar



**A – MINOR REQUIREMENTS – 18 HOURS (6 advanced)**

**1 – Health Services Technology Core – 9 hours (9 advanced)**

HPRS 3301 Introduction to the Evolving Healthcare System  
HPRS 3302 Medical Law/Ethics for the Health Professional  
HPRS 3309 Leading and Managing the Healthcare Team

**2 – Health Services Technology Electives – 9 hours (9 advanced)**

*Choose from:*

HPRS 3316 Nutrition Concepts for Allied Health Practitioners  
HPRS 3320 Patient Education in Health Sciences  
HPRS 3324 Teaching in the Health Sciences  
HPRS 4300 Pharmacology for Health Professional  
HPRS 4301 Introduction to Health Data Utilization  
HPRS 4302 Continuous Quality Improvement  
HPRS 4312 Applied Pathophysiology  
HPRS 4316 Applied Medical Microbiology  
HPRS 4334 Issues and Trends in Health Care

*The Department of Health and Human Performance has a focus on preparing Kinesiology majors to function professionally in a changing and diverse society, and to improve the quality of life through the understanding, delivering and promotion of health, physical activity, and wellness.*

**A – MINOR REQUIREMENTS – 24 HOURS (9 advanced)**

**1 – Kinesiology Core – 9 hours**

KINE 1301 Wellness  
KINE 1306 First Aid and First Responder  
KINE 1351 Introduction to Sports and Exercise Science

**2 – Kinesiology Advanced Electives – 9 hours (9 advanced)**

*Choose 9 hours of advanced Kinesiology.*

**3 – Kinesiology Electives – 6 hours**

*Choose 4 hours of Kinesiology Activity courses, and complete:*

KINE 1200 Swimming

**REHABILITATION  
MINOR**

2016-2017  
College of Health Affairs  
School of Rehabilitation Services and Counseling

---

*The field of rehabilitation is dedicated to assisting individuals, primarily adults, with disabilities to live full and independent lives. With this minor degree option, non-Rehabilitative Services majors will be exposed to the field of disabilities and be prepared for entry-level human services careers. Students will be provided a broad overview of the field by completing four required introductory courses as well as two other upper division courses.*

**A – MINOR REQUIREMENTS – 18 HOURS (9 advanced)**

REHS 2301 Introduction to Rehabilitation  
REHS 2321 Introduction to Addiction Studies  
REHS 2331 Psychology of Disability  
REHS 3320 Family and Disability

*Choose two:*

REHS 3325 Medical Aspects of Disability I  
REHS 3330 Medical Aspects of Disability II  
REHS 3340 Intermediate Aspects of Addiction Studies  
REHS 3350 Prevention of Addictive Behaviors  
REHS 4310 Rehabilitation Research  
REHS 4340 Clinical Issues in Addiction Studies  
REHS 4345 Culture and Family in Addiction Studies  
REHS 4350 Special Topics in Rehabilitation  
REHS 4355 Multicultural Issues in Human Services  
REHS 4360 Assistive Technology in Rehabilitation  
REHS 4380 Animals in Rehabilitation

---

*The honors program serves academically talented and ambitious students who value intellectual growth and want to make the most of their undergraduate education. The program provides students a flexible, challenging, and innovative curriculum that helps them develop academically, personally, and professionally. Students of all majors at UTRGV may join the honors program. In fact, no one particular academic major or career goal is more suited to the program than any other. Membership in the honors program is a privilege and a commitment, but previous graduates of the program have found it a tremendous source of enrichment as they move through and beyond UTRGV into various avenues of success.*

*The honors program is always interested in students who wish to think big when it comes to their academic and professional ambitions.*

**A – GENERAL EDUCATION CORE – 42 HOURS**

*Students must fulfill the General Education Core requirements. Honors courses are recommended satisfy General Education core requirements.*

**B – HONORS DEGREE REQUIREMENTS – 21 HOURS (12 advanced)**

**1 – Honors Core – 9 hours (3 advanced)**

HONR 3380 Honors Practicum *Choose*

*one pair:*

HONR 2385 Honors Big History I

HONR 2386 Honors Big History II

HONR 2387 Honors Humanities I

HONR 2388 Honors Humanities II

**2 – Support Courses – 12 hours (9 advanced)**

*Choose 12 honors hours, of which at least 9 hours must be advanced. Honors hours may be satisfied by courses with the HONR prefix, through honors contracts, or by departmental courses whose numbers end in - 87 or -88 (e.g., BIOL 1488).*

**ADMISSION, PROGRESSION, AND GRADUATION REQUIREMENTS, if applicable:**

**Admission requirements:**

Freshmen with fewer than 15 hours: SAT Score 1670, ACT Score 24, or Top 10% High School Class

Freshmen with more than 15 hours: GPA 3.5 or higher in college coursework (not dual or concurrent enrollment).

**Progression requirements:**

3.5 GPA or higher and progress through honors coursework.

**Graduation requirements:**

3.5 GPA or higher, completion of all required courses.

---

*The honors program serves academically talented and ambitious students who value intellectual growth and want to make the most of their undergraduate education. The program provides students a flexible, challenging, and innovative curriculum that helps them develop academically, personally, and professionally. Students of all majors at UTRGV may join the honors program. In fact, no one particular academic major or career goal is more suited to the program than any other. Membership in the honors program is a privilege and a commitment, but previous graduates of the program have found it a tremendous source of enrichment as they move through and beyond UTRGV into various avenues of success. The honors program is always interested in students who wish to think big when it comes to their academic and professional ambitions.*

**A – GENERAL EDUCATION CORE – 42 HOURS**

*Students must fulfill the General Education Core requirements. Honors courses are recommended satisfy General Education core requirements.*

**B – HONORS DEGREE REQUIREMENTS – 25 HOURS (19 advanced)**

**1 – Honors Core – 16 hours (10 advanced)**

HONR 3380 Honors Practicum  
HONR 3187 Honors Seminar Independent Study  
HONR 3387 Honors Independent Study  
HONR 4387 Honors Independent Study  
*Choose one pair:*

HONR 2385 Honors Big History I  
HONR 2386 Honors Big History II

HONR 2387 Honors Humanities I  
HONR 2388 Honors Humanities II

**2 – Support Courses – 9 hours (9 advanced)**

*Choose 9 advanced honors hours. Honors hours may be satisfied by courses with the HONR prefix, through honors contracts, or by departmental courses whose numbers end in -87 or -88 (e.g., BIOL 1488).*

**ADMISSION, PROGRESSION, AND GRADUATION REQUIREMENTS, if applicable:**

**Admission requirements:**

Freshmen with fewer than 15 hours: SAT Score 1670, ACT Score 24, or Top 10% High School Class  
Freshmen with more than 15 hours: GPA 3.5 or higher in college coursework (not dual or concurrent enrollment).

**Progression requirements:**

3.5 GPA or higher and progress through honors coursework.

**Graduation requirements:**

3.5 GPA or higher, completion of all required courses.

---

*The honors program serves academically talented and ambitious students who value intellectual growth and want to make the most of their undergraduate education. The program provides students a flexible, challenging, and innovative curriculum that helps them develop academically, personally, and professionally. Students of all majors at UTRGV may join the honors program. In fact, no one particular academic major or career goal is more suited to the program than any other. Membership in the honors program is a privilege and a commitment, but previous graduates of the program have found it a tremendous source of enrichment as they move through and beyond UTRGV into various avenues of success.*

*The honors program is always interested in students who wish to think big when it comes to their academic and professional ambitions.*

**A – GENERAL EDUCATION CORE – 42 HOURS**

*Students must fulfill the General Education Core requirements. Honors courses are recommended satisfy General Education core requirements.*

**B – HONORS DEGREE REQUIREMENTS – 28 HOURS (19 advanced)**

**1 – Honors Core – 16 hours (10 advanced)**

HONR 3380 Honors Practicum  
HONR 3187 Honors Seminar Independent Study  
HONR 3387 Honors Independent Study  
HONR 4387 Honors Independent Study

*Choose one pair:*

HONR 2385 Honors Big History I  
HONR 2386 Honors Big History II

HONR 2387 Honors Humanities I  
HONR 2388 Honors Humanities II

**2 – Support Courses – 12 hours (9 advanced)**

*Choose 12 honors hours, of which at least 9 must be advanced. Honors hours may be satisfied by courses with the HONR prefix, through honors contracts, or by departmental courses whose numbers end in -87 or - 88 (e.g., BIOL 1488).*

**ADMISSION, PROGRESSION, AND GRADUATION REQUIREMENTS, if applicable:**

**Admission requirements:**

Freshmen with fewer than 15 hours: SAT Score 1670, ACT Score 24, or Top 10% High School Class  
Freshmen with more than 15 hours: GPA 3.5 or higher in college coursework (not dual or concurrent enrollment).

**Progression requirements:**

3.5 GPA or higher and progress through honors coursework.

**Graduation requirements:**

3.5 GPA or higher, completion of all required courses

**A – MINOR REQUIREMENTS – 18 HOURS (6 advanced minimum)**

**1 – Anthropology Core – 9 hours (3 advanced)**

ANTH 2351 Introduction to Cultural Anthropology  
ANTH 1324 Human Evolution  
ANTH 4345 Anthropological Theory and Methodology

**2 – Anthropology Electives – 9 hours (3 advanced minimum)**

*Choose 9 hours in Anthropology, of which at least 3 hours must be advanced.*

**COMMUNICATION STUDIES  
MINOR**

2016-2017  
College of Liberal Arts  
Communication

---

**A – MINOR REQUIREMENTS – 18 HOURS (6 advanced minimum)**

*Students should consult with a departmental adviser for guidance with course selection for a minor that develops a concentration in an area of Communication Studies. Internship hours and practicum hours cannot be counted toward the minor. All courses must be completed with a grade of 'C' or better.*

**1 – Communication Studies Core – 6 hours (3 advanced)**

COMM 3316 Intercultural Communication

*Choose one:*

COMM 1311 Introduction to Communication

COMM 1315 Public Speaking

**2 – Communication Studies Electives – 12 hours (3 advanced minimum)**

*Choose 12 hours of Communication Studies, of which 3 hours must be advanced.*



**COMMUNICATION  
MINOR**

2016-2017  
College of Liberal Arts  
Communication

---

**A – MINOR REQUIREMENTS – 18 HOURS (9 advanced)**

*A minor in Communication Studies (non-certification) requires a total of 18 hours of Communication Studies, of which 9 hours must be advanced. All courses must be completed with a course grade of 'C' or better. Students should consult with a departmental advisor for guidance with course selection for a minor that develops a concentration from the fields of Communication Studies and Mass Communications.*

**A – MINOR REQUIREMENTS – 18 HOURS (9 advanced)**

**1 – Criminal Justice Core – 9 hours**

CRIJ 1301 Introduction to the Criminal Justice System  
CRIJ 2328 Police Systems and Practices  
CRIJ 2313 Corrections Systems and Practices

**2 – Advanced Criminal Justice Electives – 9 hours (9 advanced)**

*Choose 9 hours of advanced Criminal Justice electives.*

**A – MINOR REQUIREMENTS – 18 HOURS (18 advanced)**

*The English as a Second Language Instruction for grades 7-12 is available to any student from any field who would like to pursue ESL as a teaching field and fulfills ESL supplemental standards for the Texas Education Agency. For purposes of meeting TEA standards for ESL teaching in secondary schools in Texas, these courses or their equivalent at the graduate level may be taken either all at one level or mixed at either level.*

**1 – English ESL Core – 15 hours (15 advanced)**

ENGL 3375 Introduction to English as a Second Language  
ENGL 3361 Introduction to Descriptive Linguistics  
ENGL 3370 Language and Culture  
ENGL 3377 Methods and Assessment for English Language Learners  
ENGL 4377 Practical Experience in Secondary ESL

**2 – English ESL Elective – 3 hours (3 advanced)**

*Choose from:*

ENGL 3338 Teaching Literature to Secondary English Language Learners  
ENGL 3362 English Grammar  
ENGL 4362 Contrastive Grammar  
ENGL 4370 Introduction to Border Language  
ENGL 4375 Language Acquisition  
EDSL 4306 Content Area Methods in the ESL Classroom  
EDSL 4308 Assessment in the ESL Classroom

**ENGLISH  
MINOR**

2016-2017  
College of Liberal Arts  
Literatures and Cultural Studies

---

**A – MINOR REQUIREMENTS – 18 HOURS (18 advanced)**

*Choose 18 hours in any advanced English courses (courses determined by the student and the English faculty advisor).*

**A – MINOR REQUIREMENTS – 18 HOURS MINIMUM (6 advanced minimum)**

**1 – Environmental Studies Core – 3 hours**

ENST 1301 Introduction to Environmental Studies

**2 – Environmental Studies Electives – 15 hours (6 advanced minimum)**

**a – Environmental Science – 4-8 hours**

*Choose from:*

ENVR 1401 Introduction to Environmental Science I  
ENVR 1402 Introduction to Environmental Science II  
GEOL 1403 Physical Geology  
CHEM 1311 General Chemistry I and CHEM 1111 General Chemistry I Lab  
BIOL 2406 Environmental Biology  
ENVR 4302 Environmental Impact Analysis  
ENVR 4301 Environmental Regulations  
GEOL 4302 Environmental Geology

**b – Environmental Studies – 9-12 hours**

*Choose from:*

*Choose only one:*

ENST 4380 Environmental Studies Directed Research  
ENST 4390 Environmental Studies Internship  
PHIL 2328 Environmental Ethics  
HIST 3302 Geography and Environment in History  
ENVR 3302 Environmental Ethics  
ENVR 3304 Environmental Approaches to Sustainable Development  
SOCI 3312 Environmental Sociology  
PHIL 3352 Religion and the Environment  
POLS 4356 U.S. Environmental Policy  
HIST 3335 American Environmental History  
ANTH 4314 Environmental Anthropology  
CRIJ 4316 Environmental Crime and Justice  
MGMT 4362 Business and Sustainability  
ELEE 4373 Renewable Energy  
MECE 4360 Solar Energy

*The following courses are allowable when topic is Environmental Studies:*

SOCW 3333 Special Topic: The Natural Environment and Human Well-Being  
PAFF 4363 Special Topic: Politics of Scarcity and Ecology  
PAFF 4363 Special Topic: Government and Economy

**A – MINOR REQUIREMENTS – 18 HOURS (18 advanced)**

**1 – Film Studies Core – 12 hours (12 advanced)**

FILM 3307 Introduction to Film Studies  
FILM 3325 History and Significance of the Motion Picture  
FILM 4307 Topics in Film Theory

*Choose one:*

FILM 4308 Topics in International Film  
FILM 4309 Special Topics in Film

**2 – Film Studies Electives – 6 hours (6 advanced)**

FILM 3308 Literature and Film Adaptation  
FILM 3326 American Film Genre  
FILM 3331 Philosophy of Film  
FILM 3395 Movies and Politics  
FILM 4308 Topics in International Film\*  
FILM 4309 Special Topics in Film\*  
FILM 4363 History of Mexican Cinema

*\*Course may be taken up to two times for credit when the topic varies.*

**A – MINOR REQUIREMENTS – 18 HOURS MINIMUM (12 advanced)**

**1 – Folklore Core – 3 hours**

ANTH 1353 Introduction to Folklore

**2 – Folklore Electives – 15 hours (12 advanced)**

*Choose one:*

ANTH 1354 Anthropology of Expressive Culture

MUSI 1308 Mexican Folk Music

ANTH 3344 Archive Studies

ANTH 4353 Folklore of the Lower Rio Grande Valley

ANTH 4350 Mexican-American Folk Medicine

ANTH 4355 Psychology and Mythology

*The 18 hour minor in French Language, Literature and Culture expects students to develop proficiency in French by focusing on the four skills of reading, writing, listening and speaking. Content area courses serve to improve language, while broadening cultural knowledge of French and Francophone history, art, and literature. The program also prepares students for careers in teaching, translation, international relations and business, as well as graduate programs. Congruent with UTRGV's mission statement, it also encourages students to become more effective participants in the global community of the twenty-first century by fostering not only fluency in French, but also critical and creative thinking skills and a flexibility of the mind.*

**A – MINOR REQUIREMENTS – 18 HOURS (6 advanced)**

**1 – French Core – 12 hours**

FREN 1311 Beginning French I  
FREN 1312 Beginning French II  
FREN 2311 Intermediate French I  
FREN 2312 Intermediate French II

**2 – French Electives – 6 hours (6 advanced)**

FREN 3321 Advanced French Grammar I

*Choose one:*

FREN 3322 Advanced French Grammar II  
FREN 3323 Business French  
FREN 4321 French / Francophone Literature  
FREN 4322 Survey of French Literature I  
FREN 4323 French for Medical & Legal Professions  
FREN 4324 Introduction to French Culture and Civilization I in French  
FREN 4325 Introduction to French Culture and Civilization II in French  
FREN 4326 Survey of French Literature II  
FREN 4339 Special Topics in French  
FREN 4331 Theater Practice in French  
FREN 4330 English-French Translation  
FREN 4120 French Culture on Location  
FREN 4360 Seminar in French and Francophone Studies



*The 24 hour Minor in French Teaching, Translation, and Culture expects students to develop proficiency in French by focusing on the four skills of reading, writing, listening and speaking. Content area courses serve to improve language, while broadening cultural knowledge of French and Francophone history, art, and literature. Advanced courses in language, literature, and culture as well as translation are designed to prepare students for careers in teaching and translation. Congruent with UTRGV's mission statement, the program also encourages students to become more effective participants in the global community of the twenty-first century by fostering not only fluency in French, but also critical and creative thinking skills and a flexibility of the mind.*

**A – MINOR REQUIREMENTS – 24 HOURS (12 advanced)**

**1 – French Core – 12 hours**

FREN 1311 Beginning French I  
FREN 1312 Beginning French II  
FREN 2311 Intermediate French I  
FREN 2312 Intermediate French II

**2 – French Elective – 12 hours (12 advanced)**

FREN 3321 Advanced French Grammar I  
FREN 3330 French-English Translation

*Choose two:*

FREN 3322 Advanced French Grammar II  
FREN 3323 Business French  
FREN 4321 French / Francophone Literature  
FREN 4322 Survey of French Literature I  
FREN 4323 French for Medical & Legal Professions  
FREN 4324 Introduction to French Culture and Civilization I in French  
FREN 4325 Introduction to French Culture and Civilization II in French  
FREN 4326 Survey of French Literature II  
FREN 4339 Special Topics in French  
FREN 4331 Theater Practice in French  
FREN 4330 English-French Translation  
FREN 4120 French Culture on Location  
FREN 4360 Seminar in French and Francophone Studies

**A – MINOR REQUIREMENTS – 18 HOURS (6 advanced)**

**1 – Gender and Women's Studies Core – 3 hours (3 advanced)**

PHIL 3360 Feminist Theories

**2 – Gender and Women's Studies Electives – 15 hours (3 advanced minimum)**

*With approval from Director of Gender and Women's Studies, additional courses with 50% or more gender and women's studies content may be accepted. Students may also choose from:*

ANTH 4309 Anthropology of Women  
CRIJ 3344 Gender, Crime and Criminal Justice  
ENGL 3334 Ethnic Women Writers  
ENGL 3335 Women's Literature  
ENGL 3336 Latin American Women Writers  
ENGL 3347 Women's Rhetoric & Language  
HIST 3307 Women in History  
HIST 3366 Latin American Women in the Modern Era  
HIST 3367 Women in Colonial Latin America  
LAMS 3377 Latin American Womanhood in the Modern Era  
LAMS 3378 Women in Colonial Latin America  
MUSI 3307 Music, Gender, and Sexuality  
NURS 3309 Women's Health Issues  
PHIL 3360 Feminist Theories  
PHIL 3365 Chicana and Latin American Feminisms  
POLS 3313 U.S. Gender Politics  
PSYC 3338 Psychology of Gender  
SOCI 4310 Sociology of Gender

**A – MINOR REQUIREMENTS – 18 HOURS (18 advanced)**

GSST 4300 Global Security

GSST 4305 Open Source Research

GSST 4310 Interdisciplinary Research and Analysis

GSST 4315 Special Topics\*

GSST 4315 Special Topics\*

GSST 4320 Practicum in Global Security

\*Topics must be substantially different.

**A – MINOR REQUIREMENTS – 18 HOURS (6 advanced)**

**1 – History Core – 9 hours**

HIST 1301 US History I (or HIST 1387 US History I Honors)

HIST 1302 US History II (or HIST 1388 US History II Honors)

*Choose one:*

HIST 2321 World History I

HIST 2322 World History II

**2 – History Electives – 9 hours (6 advanced)**

*Choose 9 hours of History, of which 6 must be advanced.*

**A – MINOR REQUIREMENTS – 21 HOURS (12 advanced)**

*An interdisciplinary minor in the history, literatures, politics, and cultures of Central and South America and the Caribbean. The minor consists of seven courses and fosters the acquisition of Spanish at a professional level.*

**1 – Latin American Studies Core – 21 hours (12 advanced)**

*Choose one:*

SPAN 1311 Spanish for Non-Native Speakers I

SPAN 2313 Spanish for Native/Heritage Speakers I

*Choose one:*

SPAN 1312 Spanish for Non-Native Speakers II

SPAN 2315 Spanish for Native/Heritage Speakers II

LAMS 2301 Introduction to Inter-American Studies

LAMS 3377 Latin American Womanhood in the Modern Era

LAMS 3378 Women in Colonial Latin America

LAMS 4301 Seminar on Latin American Studies

LAMS 4391 Latin American Philosophy: Special Topics

**A – MINOR REQUIREMENTS – 18 HOURS (18 advanced)**

*Students may take and apply POLS 4390 toward the Legal Studies Minor via admission by application and acceptance into the Law School Preparation Institute.*

**1 – Legal Studies Core – 18 hours (18 advanced)**

BLAW 3337 Business Law I  
CRIJ 4356 Law and Society  
ENGL 4344 Writing for Lawyers  
HIST 3329 American Legal History  
PHIL 3370 Philosophy of Law  
POLS 4310 U.S. Judicial Process  
POLS 4311 U.S. Constitutional Law – Federalism  
POLS 4312 U.S. Constitutional Law – Civil Liberties  
POLS 4390 Legal Research and Writing I  
PSYC 4342 Psychology and Law

**MASS COMMUNICATION  
MINOR**

2016-2017  
College of Liberal Arts  
Communication

---

**A – MINOR REQUIREMENTS – 18 HOURS (9 advanced)**

*Applicants must complete 18 hours of Mass Communication, of which 9 hours must be advanced. All courses must be completed with a grade of 'C' or better. Students should consult with a departmental adviser for guidance with course selection for a minor that develops a concentration in an area of Mass Communication.*

*The humanities provide insight into the human condition, suffering, personhood, and our responsibility to each other, and offer a broad understanding of wellness, illness, and healthcare through interdisciplinary scholarship and research. In bringing together the visions and analytical approaches from diverse scholars, the UTRGV Medical Humanities Minor offers students an interdisciplinary curriculum designed to develop an understanding of the cultural, economic, gender, and historical factors that influence health and healing. At the same time, the program will foster respect for the pluralistic diversity in society at large. For those who are interested in the practice of healthcare, this minor will be invaluable in examining crucial components of the healing arts, including ethical considerations in patient/client-caregiver relations and humanistic elements of positive healthcare delivery, such as effective communication, respect amongst patients/clients and providers, integrity, excellence, compassion, empathy, altruism, and service. By participating in this program of study, students will have the unique opportunity to work with faculty in the humanities who have strong teaching and research interests in the area of healthcare. This minor encourages students to think innovatively about their own roles in improving health throughout the world, no matter their future profession or past background.*

**A – MINOR REQUIREMENTS – 18 HOURS (9 advanced)**

*Choose 18 hours of Medical Humanities coursework, of which 6 hours must be advanced.*

**1 – Medical Humanities Core – 6 hours (3 advanced)**

PHIL 2322 Professional Ethics: Biomedical  
MEDH 4301 Critical Thinking and Medical Humanities

**2 – Social Science Electives – 6 hours**

*Choose two courses (6 hours) from two different areas:*

**a – Psychology Perspectives – 3 hours**

*Choose one:*

PSYC 2301 General Psychology  
PSYC 3324 Social Psychology  
PSYC 3332 Developmental Psychology: Infancy through Adolescence  
PSYC 3333 Psychology of Adulthood: Maturity and Old Age  
PSYC 3337 Developmental Psychology: Lifespan  
PSYC 3338 Psychology of Gender  
PSYC 4312 Female and Male

**b – Sociology Perspectives – 3 hours**

*Choose one:*

SOCI 1301 Introduction to Sociology  
SOCI 3324 Sociology of Health  
SOCI 3393 Sociology of Aging

**3 – Humanities and Health Electives - 6 hours (6 advanced)**

*Choose two advanced elective courses (6 hours) from two different areas:*

**a – Humanities Perspectives – 3 hours (3 advanced)**

*Choose one:*

SPAN 4348 Sociolinguistics and Latino Health  
SPAN 4335 Special Topics in Hispanic Literatures  
COMM 3316 Intercultural Communication  
COMM 3336 Media, Race, and Ethnicity  
COMM 3337 Global Communication



COMM 3345 Gender and Communication  
COMM 3346 Health Communication  
COMM 4309 Nonverbal Communication  
HIST 4303 Public Health in the Americas  
PHIL 3322 Research Ethics: Biology  
PHIL 3340 Intermediate Logic  
PHIL 3360 Feminist Theories  
PHIL 3365 Chicana and Latin American Feminisms  
PHIL 4316 Philosophy of Science  
PHIL 4314 Philosophy of Mind  
ENGL 3370 Language and Culture  
ARTS 3396 Contemporary Art

**b – Health Perspectives – 3 hours (3 advanced)**

*Choose one:*

ANTH 4311 Medical Anthropology  
ANTH 4350 Mexican American Folk Medicine  
COMM 4303 Special Topics\*  
FREN 4339 Special Topics in French\*  
HIST 4303 Public Health in the Americas  
HLTH 3375 Consumer Health  
HLTH 3373 Human Sexuality  
HLTH 4380 Principles of Public Health  
PHIL 4302 Special Topics in Applied Ethics\*  
REHS 3320 Family and Disability  
REHS 4315 Psychological and Social Aspects of Deafness  
REHS 4355 Multicultural Issues in Health Services  
SPAN 3348 Advanced Spanish for Health Professionals II  
SPAN 4348 Sociolinguistics and Latino Health  
SPAN 4335 Special Topics in Hispanic Literatures\*  
NURS 3309 Women's Health Issues  
ENGL 3342 Technical Communication\*  
ENGL 4320 Literature and Psychoanalysis  
ARTS 4359 Seminar on Topics in Art History\*

\*Only if health-focused with prior approval.

*The University of Texas Rio Grande Valley offers the nation's only full program in Medical Spanish for Heritage Learners. Language barriers significantly compromise the quality of healthcare for limited English proficient patients. Recent studies have shown that Spanish-speaking patients have disease, mortality, and pain burdens at least twice as high as English-speaking patients. These facts make language a crucial concern for the improvement of health among Latinos in the U.S. The Medical Spanish program aims to develop critical skill sets that future healthcare providers can use to improve communication with Spanish-speaking patients.*

*Additionally, the curriculum is designed to raise awareness about language issues that intersect with access to healthcare among Spanish-speaking patients in the U.S. Students in the program participate in a service-learning internship at a local community health center that serves primarily uninsured and limited English proficient patients. These activities are intended to prepare students for the National Board Certification Examination for Medical Interpreters. The program meets the Training Program Standards issued by the National Council on Interpreting in Health Care in 2011.*

**A – MINOR REQUIREMENTS – 19 HOURS (7 advanced)**

*Choose one:*

- SPAN 1311 Spanish for Non-Native Speakers I
- SPAN 2313 Spanish for Native/Heritage Speakers I

*Choose one:*

- SPAN 1312 Spanish for Non-Native Speakers II
- SPAN 2315 Spanish for Native/Heritage Speakers II
- SPAN 2317 Spanish for Healthcare Professionals I
- SPAN 2318 Spanish for Healthcare Professionals II
- SPAN 4119 Spanish Internship
- SPAN 3348 Advanced Spanish for Health Care Professionals II (or TRSP 3348)
- SPAN 4348 Sociolinguistics and Latino/a Health(or TRSP 4348)

**A – MINOR REQUIREMENTS – 18 HOURS (6 advanced)**

**1 – Mexican American Studies Core – 6 hours (3 advanced)**

MASC 2301 Introduction to Mexican American Studies (or MCLL 2301)

MASC 3332 Mexican-American History (or HIST 3332)

**2 – Mexican American Studies Electives – 12 hours (3 advanced minimum)**

*MASC Electives should be drawn from the 1) MASC Humanities Courses 2) MASC Social Behavioral Sciences, Education, and/or Health Sciences Courses 3) and Electives Courses. These courses are listed on the Degree plan for the MASC Major.*

**MILITARY SCIENCE  
MINOR**

2016-2017  
College of Liberal Arts  
School of Interdisciplinary Programs and Community Engagement

---

**A – MINOR REQUIREMENTS – 18 HOURS (18 advanced)**

- ROTC 3202 Advanced Army Physical Development
- ROTC 3401 Adaptive Team Leadership
- ROTC 3402 Applied Team Leadership
- ROTC 4401 Mission Command and the Army Profession
- ROTC 4403 Mission Command and the Company Grade Officer

**A – MINOR REQUIREMENTS – 18 HOURS (9 advanced)**

**1 – Philosophy Core – 6 hours**

*Choose one:*

PHIL 1301 Introduction to Philosophy (or PHIL 1387)

PHIL 1310 Ethics, Happiness, and the Good Life

*Choose one:*

PHIL 1300 Critical Thinking

PHIL 1340 Introduction to Logic (or PHIL 1388 Honors)

**2 – Philosophy Electives – 12 hours (9 advanced)**

*Choose 12 hours of Philosophy, of which 9 must be advanced.*

**POLITICAL SCIENCE  
MINOR**

2016-2017  
College of Liberal Arts  
Public Affairs and Security Studies

---

**A – MINOR REQUIREMENTS – 18 HOURS MINIMUM**

**1 – Political Science Core – 9 hours**

POLS 2305 U.S. Federal Government and Politics (or POLS 2385)

POLS 2306 Texas Government and Politics (or POLS 2386)

*Choose one:*

POLS 2340 Introduction to Political Theory

POLS 2350 Political Economy

**2 – Political Science Electives – 9 hours (9 advanced)**

*Complete 9 hours of advanced Political Science courses.*

**PSYCHOLOGY  
MINOR**

2016-2017  
College of Liberal Arts  
Psychological Science

---

**A – MINOR REQUIREMENTS – 18 HOURS (6 advanced)**

*Complete 18 hours in psychology, of which 6 must be advanced.*

**PUBLIC ADMINISTRATION  
MINOR**

2016-2017  
College of Liberal Arts  
Public Affairs and Security Studies

---

**A – MINOR REQUIREMENTS – 18 HOURS (18 advanced)**

*Choose from:*

- PAFF 4300 Introduction to Public Administration
- PAFF 4305 American State and Local Government
- PAFF 4309 Public Fiscal Administration
- PAFF 4310 Comparative Public Administration
- PAFF 4311 American Public Policy
- PAFF 4324 Bureaucracy and Organizational Theory
- PAFF 4325 Public Personnel Administration
- PAFF 4362 Independent Study
- PAFF 4363 Special Topics
- PAFF 4365 American Administrative Process
- PAFF 4378 Management of Non-Profit Organizations



**A – MINOR REQUIREMENTS – 18 HOURS (9 advanced)**

**1 – Religious Studies Core – 9 hours**

PHIL 1304 World Religions

*Choose two:*

RELS 2350 Introduction to Religious Literature

PHIL 1306 Introduction to Asian Philosophy (or RELS 1306)

RELS 2352 Introduction to Christianity

RELS 2356 Introduction to Judaism

RELS 2354 Introduction to Islam

**2 – Religious Studies Electives – 9 hours (9 advanced)**

*Choose from:*

PHIL 3301 Ancient Philosophy

PHIL 3302 Medieval Philosophy

PHIL 3303 Modern Philosophy (1600 – 1800)

PHIL 3304 19<sup>th</sup> Century Philosophy

RELS 3305 Religion in Latin America

RELS 3306 Borderlands Religion and Spirituality

RELS 3307 Traditional Religions

PHIL 3350 Philosophy of Religion

PHIL 3352 Religion and the Environment (or RELS 3352)

PHIL 4350 Religion and Science

RELS 4304 Special Topics in Religion

SOCI 3363 Sociology of Religion (or RELS 3363)

HIST 4391 Special Topics in European History: The History of Christianity (or RELS 4391)

**SOCIOLOGY  
MINOR**

2016-2017  
College of Liberal Arts  
Sociology and Anthropology

---

**A – MINOR REQUIREMENTS – 18 HOURS (6 advanced)**

**1 – Sociology Core – 6 hours (3 advanced)**

SOCI 1301 Introduction to Sociology

*Choose one:*

SOCI 4333 Social Theory for Sociology Students

SOCI 4352 Social Stratification

**2 – Sociology Electives – 12 hours (3 advanced)**

*Choose 12 hours of Sociology, of which 3 must be advanced.*

**A – MINOR REQUIREMENTS – 21 HOURS (12 advanced)**

**1 – Spanish Translation Core – 12 hours (3 advanced)**

- SPAN 2313 Spanish Native/Heritage Speakers I
- SPAN 2315 Spanish Native/Heritage Speakers II
- SPAN 2389 Academic Cooperative – English to Spanish Translation
- TRSP 3341 Spanish to English Translation (or SPAN 3341)

**2 – Advanced Spanish Translation Electives – 9 hours (9 advanced)**

*Choose 9 hours of advanced TRSP.*

*Globalization and the Internet Revolution have intensified contact among cultures, and hence an education in multiple languages and technology is an absolute imperative in the new Millennium. Pursuing a minor in Spanish not only insures bilingual and bicultural competencies, but also fosters critical and creative thinking skills through the study of literature, linguistics, translation, creative writing, Culture, and/or cultures. Our program promotes these skills by introducing students to philosophical issues examined in literature and art; to writing and analytical skills; and the rich cultural complexities of languages, peoples, and nations across the globe.*

**A – MINOR REQUIREMENTS – 18 HOURS (12 advanced)**

*Choose 18 hours of Spanish coursework, of which 12 hours must be advanced.*

**1 – Basic Spanish Language Courses – 9 hours (3 advanced)**

- SPAN 2313 Spanish for Native/Heritage Speakers I
- SPAN 2315 Spanish for Native/Heritage Speakers II
- SPAN 3300 Advanced Spanish Grammar & Composition I

**2 – Spanish Electives – 9 hours (9 advanced)**

*Choose from:*

- SPAN 3301 Advanced Spanish Grammar & Composition II
- SPAN 3302 Creative Writing in Spanish
- SPAN 3305 Techniques of Literary Analysis
- SPAN 3306 Introduction to Spanish Literature
- SPAN 3307 Introduction to Latin American Literature
- SPAN 3308 Introduction to Latina/o Literature
- SPAN 3310 Introduction to Hispanic Linguistics
- SPAN 3311 Spanish Phonology and Phonetics
- SPAN 4310 Spanish Applied Linguistics
- SPAN 4311 Spanish in Social Context
- SPAN 3320 Spanish literature 1100-1750
- SPAN 3321 Spanish Literature 1750-Present
- SPAN 3322 Masterpieces of Spanish American Literature I
- SPAN 3323 Masterpieces of Spanish American Literature II
- SPAN 4320 The Mexican Novel
- SPAN 4321 Mexican Literature
- SPAN 4322 Cervantes
- SPAN 4323 Spanish American Novels
- SPAN 4324 Medieval Spanish Literatures
- SPAN 4325 Contemporary Spanish Literature
- SPAN 4326 Chicano Narrative
- SPAN 4327 Caribbean Literature
- SPAN 4328 Mexico's Contemporary Literature
- SPAN 4329 Eighteenth Century Spanish Literature
- SPAN 4330 Nineteenth Century Spanish Literature
- SPAN 4331 The Spanish American Short Story
- SPAN 4332 The Spanish American Essay
- SPAN 4333 Golden Age Prose
- SPAN 4334 Theater and Poetry of the Golden Age
- SPAN 4335 Special Topics in Hispanic Literatures
- SPAN 4336 Literature and Journalism in the Spanish Speaking World

SPAN 4337 Spanish Lyric Poetry  
SPAN 4312 History of the Spanish Language  
SPAN 4313 Problems and Issues Related to Language  
SPAN 4314 Structure of the Spanish Language  
SPAN 4315 Acquisition of the Spanish Language  
SPAN 4316 Sociolinguistics and Latino Health  
SPAN 4317 Special Topics in Hispanic Linguistics  
SPAN 4318 Spanish Language Media Studies  
SPAN 3330 CW in Spanish: Narrative  
SPAN 3331 CW in Spanish: Poetry and Prose Poetry  
SPAN 3332 CW in Spanish: Playwriting  
SPAN 3333 CW in Spanish: Special Topics  
SPAN 3338 The Hispanic World  
SPAN 4350 Spanish Civilization  
SPAN 4351 Hispanic Civilization  
SPAN 4352 Hispanic Theaters  
SPAN 4360 Topic Studies in Hispanic Culture

**A – MINOR REQUIREMENTS – 23 HOURS (12 advanced minimum)**

*All courses in this minor must be completed with a grade of 'C' or better.*

**1 – Applied Mathematics Core – 8 hours**

MATH 2413 Calculus I (or MATH 2487 Honors)

MATH 2414 Calculus II (or MATH 2488 Honors)

**2 – Applied Mathematics Electives – 15 hours (12 advanced minimum)**

*Choose from:*

MATH 2305 Discrete Mathematics

MATH 2346 Mathematics for Electrical and Computer Engineers

MATH 2415 Calculus III

MATH 3331 Applied Statistics I

MATH 3332 Applied Statistics II

MATH 3335 Applied Regression

MATH 3341 Differential Equations

MATH 3345 Linear Optimization

MATH 3347 Elementary Cryptology

MATH 3349 Numerical Methods

MATH 3361 Applied Discrete Mathematics

MATH 4337 Probability and Statistics I

MATH 4338 Probability and Statistics II

MATH 4342 Complex Variables

MATH 4344 Boundary Value Problems

MATH 4346 Integral Transforms

**A – MINOR REQUIREMENTS – 18 HOURS (6 advanced minimum)**

*Choose from:*

- ASTR 1401 Introduction to Astronomy I
- ASTR 1402 Introduction to Astronomy II
- ASTR 2101 Astronomy Night Lab
- ASTR 2301 Solar System Astronomy
- ASTR 3301 Stellar and Galactic Astronomy
- ASTR 3302 Introductory Astrophysics
- ASTR 3303 Introduction to Numerical Modeling in Astronomy
- PHYS 4360 Stellar Astrophysics

**A – MINOR REQUIREMENTS – 21 HOURS (9 advanced)**

**1 – Biochemistry Core – 12 hours**

CHEM 1311 General Chemistry I  
CHEM 1111 General Chemistry I Lab  
CHEM 1312 General Chemistry II  
CHEM 1112 General Chemistry II Lab  
CHEM 2323 Organic Chemistry I  
CHEM 2123 Organic Chemistry I Lab

**2 – Advanced Biochemistry Core – 9 hours (9 advanced)**

CHEM 3303 Biochemistry  
CHEM 4302 Advanced Biochemistry

*Choose one:*

CHEM 3103 Biochemistry Lab and CHEM 4203 Advanced Biochemistry Lab  
CHEM 4306 Special Topics in Biochemistry



**BIOLOGY  
MINOR**

2016-2017  
College of Science  
Biology

---

**A – MINOR REQUIREMENTS – 18 HOURS (6 advanced minimum)**

**1 – Biology Core – 8 hours**

BIOL 1406 General Biology I  
BIOL 1407 General Biology II

**2 – Biology Electives – 10 hours (6 advanced minimum)**

*Choose 10 hours in Biology, of which at least 6 hours must be advanced.*

**CHEMISTRY  
MINOR**

2016-2017  
College of Science  
Chemistry

---

**A – MINOR REQUIREMENTS – 18 HOURS (6 advanced)**

*Choose 18 hours of CHEM, of which 6 must be advanced.*

**ENVIRONMENTAL SCIENCES  
MINOR**

2016-2017  
College of Science  
School of Earth, Environmental, and Marine Sciences

---

**A – MINOR REQUIREMENTS – 18 HOURS MINIMUM (6 advanced)**

**1 – Environmental Sciences Core – 12 hours**

ENVR 1401 Introduction to Environmental Sciences I

ENVR 1402 Introduction to Environmental Sciences II

*Choose one:*

BIOL 1407 General Biology II (or BIOL 1488 Biology II Honors)

CHEM 1311 General Chemistry I and CHEM 1111 General Chemistry I Lab

GEOL 1403 Physical Geology

**2 – Environmental Sciences Electives – 6-8 hours (6 advanced)**

*Choose 6-8 hours of Environmental Sciences courses, of which at least 6 hours must be advanced.*

**A – MINOR REQUIREMENTS – 18 HOURS (10 advanced)**

**1 – Science Core – 8 hours**

*Choose one pair:*

GEOL 1401 Physical Geology  
GEOL 1402 Historical Geology

PSCI 1421 Physical Sciences I  
PSCI 1422 Physical Sciences II

PHYS 1401 General Physics I  
PHYS 1402 General Physics II

PHYS 2425 Physics for Scientists and Engineers I  
PHYS 2426 Physics for Scientists and Engineers II

ASTR 1401 Introduction to Astronomy I  
ASTR 1402 Introduction to Astronomy II

*NOTE: Education majors need to check with their advisor as to whether or not their natural science core requirements will also satisfy the natural science core courses within this minor.*

**2 – Geographic Information Systems Electives – 10 hours (10 advanced)**

GEOL 3408 Introduction to Geographic Information Systems  
GEOL 4309 Undergraduate Research Geoscience

*Choose one:*

GEOL 4408 Applications of Geographic Information Systems  
BIOL 4403 Introduction to Remote Sensing Technology

**A – MINOR REQUIREMENTS – 18 HOURS (10 advanced)**

*Choose from:*

GEOL 1403 Physical Geology  
GEOL 1404 Historical Geology  
GEOL 2271 Field Methods  
GEOL 3288 Lab Exp Teaching Geology  
GEOL 3408 Introduction to Geographic Information Systems  
GEOL 3402 Hydrologic Systems  
GEOL 3401 Geomorphology  
GEOL 3405 Oceanography  
GEOL 4403 Sedimentology & Stratigraphy  
GEOL 3411 Mineralogy  
GEOL 3412 Petrology  
GEOL 3421 Structural Geology  
GEOL 4302 Environmental Geology  
GEOL 4309 Undergraduate Research Geoscience  
GEOL 4385 Special Topics in Geology  
GEOL 4408 Applications of Geographic Information Systems  
GEOL 4471 Field Geology

*With approval from Department Chair, additional GEOL or GEOG courses may be accepted.*

**MIDDLE SCHOOL MATHEMATICS  
MINOR**

2016-2017  
College of Science  
School of Mathematical and Statistical Sciences

---

**A – MINOR REQUIREMENTS – 27 HOURS (21 advanced)**

*All courses in this minor must be completed with a grade of 'C' or better.*

**1 – Middle School Mathematics Core – 27 hours (21 advanced)**

MATH 1350 Fundamentals of Mathematics I  
MATH 1351 Fundamentals of Mathematics II  
MATE 3301 Fundamentals of Middle School Mathematics  
MATE 3302 Fundamentals of Measurement and Geometry I  
MATE 3303 Fundamentals of Measurement and Geometry II  
MATE 3304 Fundamentals of Algebraic Structures  
MATE 3305 Fundamentals of Statistics and Probability  
MATE 3306 Middle School Mathematics in a Technological Environment  
MATE 3307 Fundamentals of Problem Solving

**A – MINOR REQUIREMENTS – 18 HOURS (18 advanced)**

*This minor is suitable for STEM students who wish to have a general introduction to applications of physics. Minor criteria: completion of MATH 2414 Calculus II (or MATH 2488 Honors) and PHYS 2426 Physics for Scientists and Engineers II. NOTE: Any other nanotechnology-related science courses can be taken after getting approval from the academic advisor.*

**1 – Nanotechnology Core – 12 hours (12 advanced)**

PHYS 3308 Introduction to Nanoscience  
PHYS 4301 Introduction to Bio-Nanotechnology  
PHYS 4302 Nano Optics  
PHYS 4316 Undergraduate Capstone Design

**2 – Nanotechnology Electives – 6 hours (6 advanced)**

*Choose from:*

PHYS 3307 Introduction Solid State Physic  
BENG 4120 Molecular Bioengineering Lab  
BENG 4320 Molecular Bioengineering  
ENGR 3312 Engineering of Nanomaterials  
ENGR 4311 Nanofabrication and Nanoelectronics

**A – MINOR REQUIREMENTS – 18 HOURS (6 advanced)**

**1 – Physical Science Core – 8 hours**

PSCI 1421 Physical Sciences I  
PSCI 1422 Physical Sciences II

**2 – Physical Science Electives – 10 hours (6 advanced)**

*Choose 10 hours in Physical Sciences (PSCI, GEOL, GEOG, ASTR, or PHYS), of which 6 must be advanced.*



**A – MINOR REQUIREMENTS – 18 HOURS (9 advanced)**

**1 – Physics Core – 8 hours**

*Only one 8 hour course sequence can be counted for the 18 Physics hours required for the Physics Minor.*

*Choose one pair:*

PHYS 1401 General Physics I  
PHYS 1402 General Physics II

PHYS 2425 Physics for Scientists and Engineers I  
PHYS 2426 Physics for Scientists and Engineers II

**2 – Physics Electives – 10 hours (9 advanced)**

*Complete 10 hours of Physics, of which 9 must be advanced.*

**A – MINOR REQUIREMENTS – 23 HOURS (12 advanced)**

*All courses in this minor must be completed with a grade of 'C' or better.*

**1 – Mathematics Core – 14 hours (3 advanced)**

MATH 2413 Calculus I (or MATH 2487 Honors)  
MATH 2414 Calculus II (or MATH 2488 Honors)  
MATH 2318 Linear Algebra  
MATH 3350 Introduction to Mathematical Proof

**2 – Advanced Mathematics – 9 hours (9 advanced)**

*Complete 9 hours of advanced Mathematics, of which at least 6 hours must be of the following:*

MATH 3352 Modern Geometry I  
MATH 3363 Modern Algebra I  
MATH 3365 Number Theory  
MATH 3372 Real Analysis I  
MATH 4355 Topology

**A – MINOR REQUIREMENTS – 26 HOURS (16 advanced)**

*All courses in this minor must be completed with a grade of 'C' or better.*

**1 – Mathematics Core – 23 hours (13 advanced)**

MATH 2413 Calculus I (or MATH 2487 Honors)

MATH 2414 Calculus II (or MATH 2488 Honors)

MATH 2318 Linear Algebra

*Choose one:*

MATH 3331 Applied Statistics I

MATH 4337 Probability and Statistics I

MATH 3352 Modern Geometry I

MATH 3363 Modern Algebra I

MATE 4423 Advanced Studies in Secondary Mathematics

**2 – Advanced Mathematics Core – 3 hours (3 advanced)**

*Choose from:*

MATH 3326 History of Mathematics

MATH 3361 Applied Discrete Mathematics

MATH 3365 Number Theory

MATE 3322 Secondary Mathematics in a Technological Environment

**A – MINOR REQUIREMENTS – 23 HOURS (6 advanced)**

*All courses in this minor must be completed with a grade of 'C' or better.*

**1 – Mathematics Core – 11 hours**

MATH 2318 Linear Algebra  
MATH 2413 Calculus I (or MATH 2487 Honors)  
MATH 2414 Calculus II (or MATH 2488 Honors)

**2 – Advanced Statistics Electives – 12 hours (6 advanced minimum)**

*Choose from:*

*Choose only one:*

MATH 1342 Elementary Statistical Methods (or MATH 1387 Honors)  
MATH 1343 Introduction to Biostatistics (or MATH 1388 Honors)

*Choose only one:*

MATH 2334 Applied Statistics for the Health Sciences  
MATH 3331 Applied Statistics I  
MATH 3332 Applied Statistics II  
MATH 3334 Sampling  
MATH 3335 Applied Regression  
MATH 3343 Introduction to Mathematical Software  
MATH 4337 Probability and Statistics I  
MATH 4338 Probability and Statistics II

**A – CERTIFICATE REQUIREMENTS – 12 HOURS (12 advanced)**

**1 – Creative Writing Core – 3 hours**

ENGL 3351 Creative Writing I

**2 – Creative Writing Electives – 9 hours (9 advanced)**

ENGL 3350 Gallery

ENGL 3352 Creative Non-Fiction

ENGL 4350 Advanced Creative Writing: Poetry

ENGL 4351 Advanced Creative Writing: Workshop in Playwriting

ENGL 4352 Advanced Creative Writing: Workshop in Fiction

ENGL 4353 Forms and Techniques in Creative Writing

ENGL 4354 Advanced Creative Writing: Graphic Literature

ENGL 4355 Advanced Creative Writing: Screenwriting

ENGL 4356 Advanced Creative Writing: Children's Literature

ENGL 4357 Advanced Creative Writing: Creative Writing and Social Action

ENGL 4358 Advanced Creative Writing: Writing for Performance

ENGL 4359 Special Topics in Creative Writing

THTF 4315 Scriptwriting for the Stage and Screen

SPAN 3330 CW in Spanish: Narrative

SPAN 3331 CW in Spanish: Poetry and Prose Poetry

SPAN 3332 CW in Spanish: Playwriting

SPAN 3333 CW in Spanish: Special Topics

*And any course in the Writing and Literature Studies or Literature and Cultural Studies departments which contains 50% or more creative writing content.*

## PERFORMANCE WITH MARIACHI CONCENTRATION CERTIFICATE

2016-2017  
College of Fine Arts  
School of Music

---

*The School of Music awards the certificate in mariachi performance to students who choose to complete a structured study of mariachi music that includes instrumental/vocal techniques, and historical, stylistic, and pedagogical issues in mariachi music. The certificate will produce highly competent mariachi performers and educators. As mariachi ensembles continue to proliferate in secondary and higher education, the certificate will add value to the degrees of students seeking this concentration. The certificate also fulfills UTRGV's values as a bi-cultural, bilingual, and biliterate institution, and the mission of the department of music and dance to promote greater appreciation of the cultural heritage of the region. The certificate in mariachi performance is not a substitute for teacher certification.*

### **A – REQUIREMENTS – 15 HOURS (9 advanced)**

- MUEN 1128 Mariachi Ensemble
- MUEN 3128 Mariachi Ensemble
- MUSI 1307 Mexican Folk Music
- MUSI 2128 Techniques of Guitarrón, Vihuela, Guitar
- MUSI 2228 Special Topics: Style and Interpretation of Violin, Trumpet, Voice
- MUSI 2310 Technology in Music
- MUAP x2xx Applied Major Instrument
- MUAP x2xx Applied Major Instrument