

**West Texas A&M University**  
**STARR Center**  
**Degree Checklist**  
**2012-2013**

(For assistance completing this form, contact Advising Services at 806-651-5300)

NAME: \_\_\_\_\_ WT ID: \_\_\_\_\_ DATE: \_\_\_\_\_

**Mathematics 8-12 Certification**  
**Department of Mathematics, Chemistry and Physics**  
**Classroom Center, Room 420 (806)651-2540**

|                                                                                                                                                                                                                       |     |  |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--|-----|
| <b>CORE CURRICULUM COURSES: 42 HOURS</b> †                                                                                                                                                                            |     |  |     |
| Specific course(s) required for this major are listed in the next section.                                                                                                                                            |     |  | HRS |
| <b>Communication (10)</b>                                                                                                                                                                                             |     |  |     |
| ENGL 1301 (ENG 101); 1302* (ENG 102) or 2311* (ENG 270)<br>(Grade of "C" or better required)                                                                                                                          | 6   |  |     |
| <b>Communication (11)</b>                                                                                                                                                                                             |     |  |     |
| COMM 1315 (SCOM 101, 1315), 1318 (SCOM 103, 1318), or 1321 (SCOM 201, 1321)<br>(Grade of "C" or better required)                                                                                                      | 3   |  |     |
| <b>Mathematics (20)</b>                                                                                                                                                                                               |     |  |     |
| MATH 1314* (110), 1324* (115), 4332*/***, 2412*, or 2413*                                                                                                                                                             | 3   |  |     |
| <b>Natural Sciences (30)</b>                                                                                                                                                                                          |     |  |     |
| See University Core Requirements below                                                                                                                                                                                | (8) |  |     |
| <b>Humanities (40-41)</b>                                                                                                                                                                                             |     |  |     |
| ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311 (110), 2323, 2372 (210); MCOM 1307 (MC 107); PHIL 1301 (101), 2374 (204); SPAN 2312*/*** (207) or SPAN 2315*/*** Choose 1                                           | 3   |  |     |
| <b>Visual and Performing Arts (50)</b>                                                                                                                                                                                |     |  |     |
| HUMA 1315 (FA 101); ARTS 1303 (ART 151), ARTS 1304 (ART 152); DANC 2303; MUSI 1306 (MUS 101) or 1208 and 1209*; or THRE 1310 (105) Choose 1                                                                           | 3   |  |     |
| <b>Social and Behavioral Sciences (60)</b>                                                                                                                                                                            |     |  |     |
| HIST 1301 (201) or 1303; 1302 or 1304; 2301; 2381 Choose 2                                                                                                                                                            | 6   |  |     |
| <b>Social and Behavioral Sciences (70)</b>                                                                                                                                                                            |     |  |     |
| POSC 2305 (101) or 2370; 2306 (102)                                                                                                                                                                                   | 6   |  |     |
| <b>Social and Behavioral Sciences (80)</b>                                                                                                                                                                            |     |  |     |
| AGBE 2317* (213), ANTH 2351 (201); CRIJ 1301 (CJ 105); ECON 2301 (ECO 201), 2302 (ECO 202), 2371; GEOG 1302 (202); PSYC 2301 (PSY 201); COMM 2377 (SCOM 255, 2377); SOCI 1301 (201); or SOCW 2361 (SOWK 201) Choose 1 | 3   |  |     |
| <b>Institutionally Designated Option (90)</b>                                                                                                                                                                         |     |  |     |
| ANSC 2370; CIDM 1105, 1301 (CIS, IDM 1301), 1315 (CIS, IDM 1315), 2345; CS 1301; IDS 1071; PHIL 2303 (203) Choose 1                                                                                                   | 1-3 |  |     |
| <b>MATHEMATICS 8-12 CERTIFICATION REQUIREMENTS: 88-89 HOURS</b>                                                                                                                                                       |     |  |     |
| A grade of "C" or better must be earned in all courses required for major.                                                                                                                                            |     |  |     |
| <b>UNIVERSITY CORE REQUIREMENTS: 8 HOURS</b>                                                                                                                                                                          |     |  |     |
| <b>CORE 30</b>                                                                                                                                                                                                        |     |  |     |
| PHYS 1401*, 1401L (101) and PHYS 1402*, 1402L (102)<br>OR<br>PHYS 2425*, 2425L (210) and 2426*, 2426L (211)                                                                                                           | 8   |  |     |
| <b>MATHEMATICS REQUIREMENTS: 41-42 HOURS</b>                                                                                                                                                                          |     |  |     |
| A 2.5 combined GPA is required for Mathematics, Other Degree, and Supporting Area requirements below.                                                                                                                 |     |  |     |
| MATH 1316* (111) Plane Trigonometry OR<br>MATH 2412* (1348) Pre-Calculus                                                                                                                                              | 3-4 |  |     |
| MATH 2413* (240) Calculus I                                                                                                                                                                                           | 4   |  |     |
| MATH 2414* (241) Calculus II                                                                                                                                                                                          | 4   |  |     |
| MATH 3306* (306) Secondary Mathematics and Technology                                                                                                                                                                 | 3   |  |     |
| MATH 3321* (321) Probability OR<br>MATH 4361* (461) Engineering Statistics                                                                                                                                            | 3   |  |     |
| MATH 3325* Introduction to Proofs                                                                                                                                                                                     | 3   |  |     |
| MATH 3331* (331) Secondary Principles in Geometry                                                                                                                                                                     | 3   |  |     |
| MATH 4310* (310) Modern Algebra                                                                                                                                                                                       | 3   |  |     |

**Bachelor of Science Degree**  
**BS.MATH.EDS (465)**

|                                                                                                                                                                                                                                                            |   |                |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------|------|
| MATH 4341* (441) Advanced Calculus                                                                                                                                                                                                                         | 3 |                |      |
| <b>Select four courses from:</b>                                                                                                                                                                                                                           |   |                |      |
| MATH 3321* (321) Probability OR<br>MATH 4361* (461) Engineering Statistics (one not taken above)                                                                                                                                                           |   | 12             |      |
| MATH 3311* (411) Linear Algebra<br>MATH 3340* (340) Calculus III<br>MATH 3342* (342) Differential Equations I<br>MATH 3343* (343) Differential Equations II<br>MATH 4340* (440) Complex Variables I<br>MATH 4362* (492) Introduction to Numerical Analysis |   |                |      |
| <b>OTHER DEGREE REQUIREMENTS: 6 HOURS</b>                                                                                                                                                                                                                  |   |                |      |
| CS 1315* Programming Fundamentals                                                                                                                                                                                                                          | 3 |                |      |
| MPS 4370* Senior Investigations                                                                                                                                                                                                                            | 3 |                |      |
| PHYS 1401*, 1401L (101) and PHYS 1402*, 1402L (102)<br>OR<br>PHYS 2425*, 2425L (210) and 2426*, 2426L (211)                                                                                                                                                | - |                | core |
| <b>EDUCATION REQUIREMENTS: 27 HOURS</b>                                                                                                                                                                                                                    |   |                |      |
| A 2.5 combined GPA is required.                                                                                                                                                                                                                            |   |                |      |
| EDPD 3340* (340) Educational Foundations<br>(Grade of "B" or better required in either EDPD 3340 or EPSY 3341)                                                                                                                                             | 3 |                |      |
| EDPD 4340* (440) Classroom Management                                                                                                                                                                                                                      | 3 |                |      |
| EDRD 4386* (486) Secondary Reading in Content Area                                                                                                                                                                                                         | 3 |                |      |
| EDSE 4320* (420) Teaching in Secondary School                                                                                                                                                                                                              | 3 |                |      |
| EDSE 4340* (440) Student Teaching—Secondary                                                                                                                                                                                                                | 3 |                |      |
| EDSE 4341* (441) Student Teaching—Secondary                                                                                                                                                                                                                | 3 |                |      |
| EDT 3343 Educational Technology                                                                                                                                                                                                                            | 3 |                |      |
| EPSY 3341* (341) Educational Psychology<br>(Grade of "B" or better required in either EDPD 3340 or EPSY 3341)                                                                                                                                              | 3 |                |      |
| EPSY 3350 (350) Children with Special Needs                                                                                                                                                                                                                | 3 |                |      |
| <b>SUPPORTING AREA: 6 HOURS</b>                                                                                                                                                                                                                            |   |                |      |
| Take six hours from a supporting area: CS, Science or MATH.                                                                                                                                                                                                |   |                |      |
| CS, Science or MATH course                                                                                                                                                                                                                                 | 3 |                |      |
| CS, Science or MATH course                                                                                                                                                                                                                                 | 3 |                |      |
| <b>TOTAL HOURS REQUIRED FOR DEGREE</b>                                                                                                                                                                                                                     |   | <b>122-125</b> |      |

† A minimum of 42 hours from the core curriculum is required. Some majors specify particular courses to meet core-curriculum requirements when options are available. Ideally, these courses should be taken during the first two years of enrollment.  
\* Indicates prerequisites—see catalog for more information.  
\*\* While MATH 1332 will fulfill core math requirements, it will NOT prepare students for math beyond MATH 1332 such as Plane Trigonometry (MATH 1316), Pre-Calculus (MATH 2412), etc.  
\*\*\* Or an equivalent course (second year, second semester) in French or German.

NOTE: At least 39 hours of advanced work (3000- or 4000-level courses) for which tuition is paid must be earned at WTAMU, and 30 of the final 36 hours counted toward the degree must be earned at WTAMU. A maximum of six semester hours in religion (RELI) and six semester hours in physical education (PHED) courses can count toward a baccalaureate degree.

**Note: This is NOT a degree plan. Before completion of 60 hours, students are allowed and encouraged to request an official degree plan in the office of the dean of the College of Agriculture, Science and Engineering, located in the Agriculture and Natural Sciences Building, Room 106 (or call 651-2585). After completing 60 hours, students will not be allowed to progress without requesting a degree plan.**