### Department of Curriculum & Instruction Advisement Guide

**SCIENCE**  
Effective Fall 2020

#### Optimal Recommended Course Sequencing

<table>
<thead>
<tr>
<th>Freshman</th>
<th>Sophomore</th>
<th>Junior</th>
<th>Senior</th>
</tr>
</thead>
</table>
| ENG 1301 – 3 hr  
HIST 1301 – 3 hr  
MATH 1314 – 3 hr  
Core-Life & Phys. Science – 3 hr  
PSCI 2305 – 3 hr  
PSCI 2306 – 3 hr  
ENG 1302 – 3 hr  
HIST 1302 – 3 hr  
Core-Life & Phys. Science – 3 hr  
Signature Course – 3-6 hr*  
Degree Pathway-BSIS or BAIS (consult catalog) -3-6 hr * | Core-Creative Arts – 3 hr  
Core-Social/Behavioral Science – 3 hr  
Core-Literature, Phil., Culture-3 hr  
MATH 1350 – 3 hr  
ELED 1301 – 3 hr  
MLED 314 – 3 hr  
SPED 346 – 3 hr  
MATH 1351 – 3 hr  
PSY 300 – 3 hr  
CHEM 1305 -3 hr & 1105- 1 hr (lab)  
or CHEM 1411 – 4 hr | Science elective – 3-4 hr  
ELED 300 – 3 hr  
RDG 380 – 3 hr  
PSY 310 – 3 hr  
IS 352 – 3 hr  
IS 451 – 3 hr  
BSC 461 – 3 hr (summer only)  
ESCI 461 – 3 hr (summer only) | MLED 402 – 3 hr  
MLED 403 – 3 hr  
MLED 435 – 3 hr  
RDG 450 – 3 hr  
ELED 452 – 3 hr  
MLED 410 – 3 hr  
ELED 452 – 3 hr  
SPED 480 – 3 hr |
| Total 33 hr | Total 31 hr | Total 31-32 hr | Total 27 hr |

**TOTAL HOURS: 122**

Consult catalog or advisor for any prerequisites, corequisites or other course requirements.  
Students seeking a BAIS will be required to take 12 hours of a Foreign Language.

### Departmental Testing Requirements for Coursework

**ELED 300:**  
- Overall GPA of 2.50  
- Texas Success Initiative (TSI) complete in Math, Reading and Writing  
- Any course co- or pre-requisite met

**RDG 380:**  
- Score 250 or higher on the RDG THEA; or 23 Composite and 23 English on the ACT; or 1070 Combined and 550 Critical Reading/Verbal on the SAT or SAT 590 Evidence Based Reading/Writing (after 2016)  
- Overall GPA of 2.75  
- Texas Success Initiative (TSI) complete in Math, Reading and Writing  
- Any course co- or pre-requisite met

### All students must see a Curriculum & Instruction Academic Advisor

<table>
<thead>
<tr>
<th>Campus</th>
<th>Advisor’s Name</th>
<th>Advisor’s Email Address</th>
<th>Office</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commerce</td>
<td>Becky Adams</td>
<td><a href="mailto:Becky.Adams@tamuc.edu">Becky.Adams@tamuc.edu</a></td>
<td>Ed South 210</td>
</tr>
</tbody>
</table>
## Core Curriculum

<table>
<thead>
<tr>
<th>Prefix and Number</th>
<th>Course Title/Category (Semester Hours)</th>
<th>Transfer Grade</th>
<th>TAMUC Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 1301</td>
<td>US-College Reading and Writing (3 SH)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*ENG 1302</td>
<td>GLB/Written Argument and Research (3 SH)</td>
<td></td>
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<tr>
<td>*HIST 1301</td>
<td>History of the United States through Reconstruction (3 SH)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*HIST 1302</td>
<td>History of the United States from Reconstruction (3 SH)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 1314</td>
<td>US College Algebra (3 SH)</td>
<td></td>
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</tr>
<tr>
<td>PSCI 2305</td>
<td>United States Government and Politics (3 SH)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSCI 2306</td>
<td>Texas Government and Politics (3 SH)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multiple options †</td>
<td>Core-Literature, Philosophy &amp; Culture (3 SH)</td>
<td>*Consult university catalog</td>
<td></td>
</tr>
<tr>
<td>Multiple options †</td>
<td>Core-Social &amp; Behavioral Science (3 SH)</td>
<td>*Consult university catalog</td>
<td></td>
</tr>
<tr>
<td>Multiple options †</td>
<td>Core-Life &amp; Physical Science (3 SH)</td>
<td>*Consult university catalog</td>
<td></td>
</tr>
<tr>
<td>Multiple options †</td>
<td>Core-Life &amp; Physical Science (3 SH)</td>
<td>*Consult university catalog</td>
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</tr>
<tr>
<td>Multiple options †</td>
<td>Core-Creative Arts (3 SH)</td>
<td>*Consult university catalog</td>
<td></td>
</tr>
<tr>
<td>Multiple options †</td>
<td>Degree Pathway-BSIS or BAIS (3 SH)</td>
<td>*Consult university catalog</td>
<td></td>
</tr>
<tr>
<td>UNCO 1301</td>
<td>Component Area Option-Signature Course (3-6 SH)</td>
<td>*Consult university catalog</td>
<td></td>
</tr>
</tbody>
</table>

† [http://catalog.tamuc.edu/undergrad/core-curriculum-requirements/](http://catalog.tamuc.edu/undergrad/core-curriculum-requirements/)

### Major/Certification/Professional Development Courses

**NOTE:** Students must maintain a 2.75 GPA with no grade below a “C” in all courses and each of the sections below.

<table>
<thead>
<tr>
<th>Prefix and Number</th>
<th>Course Title/Category (Semester Hours)</th>
<th>Transfer Grade</th>
<th>TAMUC Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>*IS 351</td>
<td>Inquiry: Knowledge and Skills of Science (3 SH)</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>*IS 352</td>
<td>Science Inquiry II (3 SH)</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>*MATH 350</td>
<td>Topics in Mathematics for Elementary Teachers I (3 SH)</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>*MATH 351</td>
<td>Topics in Mathematics for Elementary Teachers II (3 SH)</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>SPED 346</td>
<td>Introduction to Exceptional Children (3 SH)</td>
<td>N/A</td>
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</tbody>
</table>

**Specialization Courses**

- IS 451 Historical Development of Great Ideas in Science (3 SH) | N/A
- *ESCI 461 Earth Science for Teachers (3 SH) | N/A
- *BSC 461 Biology for Middle School Teachers (3 SH) | N/A
- *CHEM 1305 and CHEM 1105 (lab) or CHEM 1411 Survey of General Chemistry or General and Quantitative Chemistry I (3 SH) Experimental Survey of General Chemistry: Laboratory Section (1 SH) General and Quantitative Chemistry I (4 SH) | N/A
- PHYS 1401 or 1402 College Physics (4 SH) | N/A

***If CHEM and PHYS taken in core, take 2 more core science classes***

Science elective (3-4 SH)

### Professional Development Courses

- ELED 1301 Education in Global Society (3 SH) | N/A
- **ELED 300 Introduction to Teaching (3 SH) | N/A
- MLED 314 Young Adolescent Development (3 SH) | N/A
- PSY 300 Learning Processes and Development (3 SH) | N/A
- PSY 310 Psychology and Sociology of Diverse Populations (3 SH) | N/A
- **RDG 380 Comprehension and Vocabulary in Middle and High Schools (3 SH) | N/A

**Internship – Maximum of 4 hours can remain before beginning**

- *MLED 402 Best Practices in Pedagogy and Assessment (3 SH) | N/A
- *MLED 403 Organization, Motivation and Management in Middle Level Classrooms (3 SH) | N/A
- *MLED 435 Integrating Instruction: Science, Mathematics and Technology (3 SH) | N/A
- RDG 450 Building a Community of Readers (3 SH) | N/A
- **ELED 452 Student Teaching in Field-Based Teacher Education Programs (3 SH) | N/A

### Residency

- *MLED 404 Developing Communication Skills (3 SH) | N/A
- *MLED 410 Fostering School, Family, and Community Relationships (3 SH) | N/A
- **ELED 452 Student Teaching in Field-Based Teacher Education Programs (3 SH) | N/A
- SPED 480 Issues for Inclusion (3 SH) | N/A

*Courses with pre- or co-requisite (controlled by registration system) – Please consult catalog and advisor for details

** Courses with registration restrictions – Must be authorized by course-offering department before registration