## SECONDARY EDUCATION - STEM - ASSOCIATE OF SCIENCE DEGREE (AS)

Explore More About This Program: https://cwi.edu/program/educationsecondary

## Degree Plan

The course sequence listed below is strongly recommended in order to complete your program requirements. Please register for each semester as shown using the Student Planning tool in myCWI. Plans may be modified to fit the needs of parttime students by adding additional semesters. Consult your advisor for any questions regarding this course sequence plan.

## First Year

| Fall |  | Credit Hours |
| :---: | :---: | :---: |
| CWI 101 | Connecting With Ideas | 3 |
| EDUC 120 | Foundations of Education (GEM 6) | 3 |
| ENGL 101 | Writing and Rhetoric I (GEM 1) | 3 |
| MATH 143 or MATH 170 | Precalculus I: Algebra (Recommended GEM 3) ${ }^{1,2}$ or Calculus I | 3 |
| STEM Elective | Select a STEM course from the list below | 3-4 |
|  | Total Semester Credit Hours | 15 |
| Spring |  |  |
| EDUC 220 | Diversity in the Schools | 3 |
| EDUC 230 | Introduction to Special Education | 3 |
| ENGL 102 | Writing and Rhetoric II (GEM 1) | 3 |
| GEM 4 - Scientific W | course ${ }^{3}$ | 4 |
| STEM Elective | Select a STEM course from the list below | 3-4 |
|  | Total Semester Credit Hours | 16 |
| Second Year |  |  |
| Fall |  |  |
| COMM 101 | Fundamentals of Oral Communication (Recommended GEM 2) ${ }^{2}$ | 3 |
| EDUC 200 | Education Around the World (Global Perspectives) | 3 |
| PHIL 101 or PHIL 103 | Introduction to Philosophy (GEM 5) ${ }^{4}$ or Introduction to Ethics | 3 |
| GEM 6 - Social \& Beh | Knowing course ${ }^{5}$ | 3 |
| STEM Elective | Select a STEM course from the list below | 3-4 |
|  | Total Semester Credit Hours | 15 |
| Spring |  |  |
| EDUC 280 | Integrated Teaching and Field Experience | 2 |
| EDUC 290 | Education Capstone | 1 |
| GEM 4 - Scientific W | course ${ }^{5}$ | 3 |
| GEM 5 - Humanistic | f Knowing course ${ }^{5,6}$ | 3 |
| STEM Elective | Select a STEM course from the list below | 1-5 |
|  | Total Semester Credit Hours | 14 |
|  | Minimum Credit Hours Required | 60 |

[^0]2 The general education (GE) courses listed above are recommended by the department as the most beneficial GE options for students in this program. Please note that students may fulfill their GE requirements by completing another course from the applicable general education category.
3 Must include a lab component
4 This course fulfills the Ethical Reasoning requirement for an associate degree from CWI.
5 Course must come from a different discipline.
6 Recommend any modern language course (FREN, JAPN, SIGL, or SPAN).

## Advising Notes

- Students pursuing a Secondary Education degree are strongly encouraged to meet with an Education faculty member for advising. Students do not need to be specifically assigned to a faculty member to seek advising support directly from the Education Department.
- Most of the Education (EDUC) courses can be moved around to meet scheduling needs as long as students honor prerequisite requirements.
- Secondary Education students should focus on the coursework required for their content major and confirm requirements at their four-year school as early as possible to make the most productive choices in course enrollment at CWI.


## STEM Elective Courses

The following list notes the courses that, in addition to the Mathematical Ways of Knowing (GEM 3) and Scientific Ways of Knowing (GEM 4) courses, will count as approved STEM courses. Students should choose 13-14 credits (to bring the total credits earned to a minimum of 60 ) of coursework from the GEM 3, GEM 4, or STEM course list below:

| Course | Course Title | Min Credits |
| :---: | :---: | :---: |
| AMET 121 | DC Circuits and Application | 5 |
| AMET 231 | Industrial Robotics | 5 |
| AMET 236 | Fluid Power Systems | 2 |
| BIOL 112 | Biology II | 3 |
| BIOL 112L | Biology II Lab | 1 |
| BIOL 113 | Biology III: Principles of Structure and Function | 3 |
| BIOL 113L | Biology III: Principles of Structure and Function Lab | 1 |
| BIOL 228 | Human Anatomy and Physiology II | 3 |
| BIOL 228L | Human Anatomy and Physiology II Lab | 1 |
| BIOL 280 | Pathophysiology | 4 |
| CHEM 112 | General Chemistry II | 3 |
| CHEM 112L | General Chemistry II Lab | 2 |
| CHEM 253 | Quantitative Analysis | 3 |
| CHEM 253L | Quantitative Analysis Lab | 2 |
| CHEM 298 | Organic Chemistry I | 3 |
| CHEM 298L | Organic Chemistry I Lab | 2 |
| CHEM 299 | Organic Chemistry II | 3 |
| CHEM 299L | Organic Chemistry II Lab | 2 |
| CPSC 111 | Introduction to Python Programming | 3 |
| CPSC 121 | Computer Science I | 4 |
| CPSC 221 | Computer Science II | 3 |
| ENGR 210 | Engineering Mechanics: Statics | 3 |
| ENGR 220 | Engineering Mechanics: Dynamics | 3 |
| ENVI 260 | General Ecology | 3 |
| ENVI 260L | General Ecology Lab | 1 |
| ENVI 280L | Field Biology | 3 |
| EXHS 243 | Applied Kinesiology | 3 |
| FERM 110 | Grapes and Hops: Specialty Crops | 3 |
| GEOS 208 | Hydrology and Water Resources | 4 |
| GEOS 275 | Field Geology | 4 |
| GIS 126 | Fundamentals of GIS | 3 |
| GIS 226 | Spatial Analysis With GIS | 3 |
| GIS 240 | Python Scripting for GIS | 3 |


| MATH 175 | Calculus II | 4 |
| :--- | :--- | :--- |
| MATH 176 | Discrete Mathematics | 4 |
| MATH 230 | Introduction to Linear Algebra | 4 |
| MATH 275 | Calculus III | 4 |
| MMBS 260 | Introduction to Cell Biology | 3 |
| MMBS 260L | Introduction to Cell Biology Lab | 1 |
| MMBS 280 | Genetics | 3 |
| MMBS 280L | Genetics Lab | 1 |
| NURS 100 | Fundamentals of Nursing and Health Assessment | 3 |
| NURS 103 | Nursing and Health Assessment Skills Lab/Clinical | 3 |
| NURS 106 | Basic Pharmacology for Nursing | 3 |
| NURS 201 | Nursing Specialties Clinical | 3 |
| NURS 203 | Advanced Medical Surgical Nursing Lab/Clinical | 2 |
| PHYS 212 | Physics for Scientists and Engineers II | 4 |
| PHYS 212L | Physics for Scientists and Engineers II Lab | 4 |
| SCIE 200 | Vertically Integrated Projects (VIP) | 1 |
| SMT 200 | Programming for Semiconductor Manufacturing | 1 |
| SMT 210 | Nanofabrication I | 2 |
| SMT 220 | Quality Control and Statistical Processing | 2 |
| SMT 260 | Nanofabrication II | 2 |
| SWDV 105 | Introduction to Programming | 3 |


[^0]:    1 Secondary Education - STEM majors are encouraged to take the Math Diagnostic upon acceptance to CWI if they did not submit ACT or SAT scores for math placement. The Math Diagnostic will inform the student if a review course such as MATH 097, MATH 098, or MATH 099 is needed prior to entering a college-level math course such as MATH 143 or MATH 170. Students should select a GEM 3 course based on the math requirements of the transfer institution they plan to attend.

