COMPUTER ENGINEERING

SOLVE ENGINEERING PROBLEMS

ANALYZE

IMPROVE

INNOVATE

circuitry
algorithms
data structures
microelectronics
signal processing
embedded systems
CORE GENERAL EDUCATION REQUIREMENTS

COMPOSITION (EN) Placement Exam: Accuplacer

Complete ENGL 2010 Intermediate College Writing (3) and earn a “C” grade or better.
See the WSU Catalog or weber.edu/placement for prerequisite information.

Level 1 ENGL 0900  Level 2 ENGL 0955  Level 3 ENGL 1010  Level 4 ENGL 2010

AMERICAN INSTITUTIONS (AI)

Select one of the following options and earn a “C” grade or better:

- **POL 1100** American National Government (3)
- **HIST 1700** American Civilization (3)
- **EC 1740** Economic History of the U.S. (3)
- **HIST 1700 & 2710** History of the U.S. to 1877 (3) AND History of the U.S. since 1877 (3) for History majors

CE majors should pick **ONE** of these three classes

**QUANTITATIVE LITERACY (QL) Placement Exam ALEKS**

Select one of the following options and earn a “C” grade or better:

- **MATH 1030** Contemporary Mathematics (3)
- **MATH 1040** Introduction to Statistics (3)
- **MATH 1050** College Algebra (4)
- **MATH 1080** Pre-calculus (5)
- **MATH 2020** Geometry for Elementary Teachers (3)

Any WSU Math class for which either MATH 1050 or 1080 is a prerequisite

A score of 26 or higher on the Math portion of the ACT
A score of 65 or higher on ALEKS

CE majors must take either MATH 1050¹ or MATH 1080

¹ If you choose MATH 1050, you will also need to take MATH 1060 (prerequisite to MATH 1210)

**TECH MATH PATH**

- **Level 1** MATH 0950
- **Level 2** MATH 0990
- **Level 3** MATH 1010
- **Level 4** MATH (QL) 1050
- **Level 5** MATH (QL) 1080

**OR**

- **Level 1** MATH 0950
- **Level 2** MATH 0990
- **Level 3 or Level 4** MATH 1010
- **Level 5** MATH (QL) 1080

See the WSU Catalog or weber.edu/placement for prerequisite information.

**INFORMATION LITERACY (IL) Recommended to take with ENGL 2010**

Complete an exam or course option (see table below) and earn a “C” grade or better for a course or a passing exam score.

<table>
<thead>
<tr>
<th>Competency Exam</th>
<th>LIBS 1504 (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courses</td>
<td></td>
</tr>
<tr>
<td>LIBS 1704</td>
<td>Information Navigator (1)</td>
</tr>
<tr>
<td>LIBS 2504</td>
<td>Info. Resources in History (1)</td>
</tr>
<tr>
<td>LIBS/EDUC 2604</td>
<td>Info. Resources in Education (1)</td>
</tr>
<tr>
<td>LIBS/BSAD 2704</td>
<td>Info. Resources in Business Disciplines (1)</td>
</tr>
<tr>
<td>LIBS 2804</td>
<td>Info. Resources in Social Sciences (1)</td>
</tr>
<tr>
<td>LIBS/HTHS 2904</td>
<td>Info. Resources in Health Professions (1)</td>
</tr>
</tbody>
</table>

**DIVERSITY (DV)**

Select 3 credits from the list of approved courses and earn a passing grade. Breadth general education courses marked with “*” fulfill the Diversity requirement as well as the specified Breadth requirement.

**Key**

1 = number of classes you will need to select in that section

highlighted courses = required or recommended class

HU = Humanities Credit
CA = Creative Arts Credit
DV or * = Diversity Credit
SS = Social Sciences Credit
PS = Physical Sciences Credit
LS = Life Sciences Credit

WEBER STATE UNIVERSITY
Engineering, Applied Science & Technology

DEPARTMENT OF
ELECTRICAL & COMPUTER ENGINEERING
HUMANITIES & CREATIVE ARTS

Select 9 credits (with at least 3 credits from Humanities and at least 3 credits from Creative Arts) and earn a passing grade.

HUMANITIES (HU)

Anthropology
ANTH 1040 Language and Culture (3)

Communication
COMM 2110 Interpersonal and Small Group Communication (3)

Foreign Language
FL 2851 Study Abroad (3)
FL 2020 Fourth Semester (3)
FL 2600 Introduction to Cultural and Literary Studies in Translation (3)

Honors
HNRS 1110 Introduction to Honors: The Construction of Knowledge (3)
HNRS 1540 Perspectives in the Humanities (3)
HNRS 2010 Exploring Key Concepts in the Disciplines: Humanities (3)
HNRS 2110 Intellectual Traditions: Great Ideas of the West in Classical and Medieval Eras (3)
HNRS 2120 Intellectual Traditions: Great Ideas of the West in the Modern Era (3)
HNRS 2130 Intellectual Traditions: Great Ideas of the East (3)

English
ENGL 2200 Introduction to Literature (3)
ENGL 2220 Introduction to Fiction (3)
ENGL 2230 Introduction to Drama (3)
ENGL 2240 Introduction to Poetry (3)
ENGL 2510 Masterpieces of Literature (3)
ENGL 2710 Perspectives on Women's Literature (3)
ENGL 3500 Introduction to Shakespeare (3)
ENGL 3510 World Literature (3)
ENGL 3520 Literature of the Natural World (3)
ENGL 3750 Topics and Ideas in Literature (3)

Music
MUSC 1043 Music, the Arts & Civilizations (3)

Philosophy
PHIL 1000 Introduction to Philosophy (3)
PHIL 1120 Contemporary Moral Problems (3)
PHIL 1250 Critical Thinking (3)

Theatre
THEA 2821 Period Styles in Design
THEA 3323 History and Literature of Contemporary Theatre (3)

SOCIAL SCIENCES (SS) Select 6 credits and earn a passing grade.

Anthropology
ANTH 1000 Introduction to Anthropology (3)
ANTH 2010 Peoples and Cultures of the World (3)
ANTH 2030 Principles of Archaeology (3)

Child and Family Studies
CHF 1500 Human Development (3)
CHF 2400 Family Relations (3)

Criminal Justice
CRIM 1010 Introduction to Criminal Justice (3)

Economics
ECON 1010 Economics as a Social Science (3)
ECON 1100 Environmental Issues and Economic Policy (3)
ECON 2010 Principles of Microeconomics (3)

Engineering Technology & Culture
ETC 2001 Engineering Culture (3)

Geography
GEOG 1300 Places and Peoples of the World (3)
GEOG 1520 Geography of the United States and Canada (3)

Gerontology
GERT 1010 Introduction to Gerontology (3)

Health Education
HLTH 1030 Healthy Lifestyles (3)

History
HIST 1500 World History to 1500 C.E. (3)
HIST 1510 World History from 1500 C.E. to the Present (3)

Humanities and at least 3 credits from Creative Arts) and earn a passing grade.

CREATIVE ARTS (CA)

Art
ART 1010 Introduction to the Visual Arts (3)
ART 1030 Studio Art for the Non-Art Major (3)
ARTH 1090 Art and Architecture of the World: Paleolithic to AD 1000 (4)
ARTH 1100 Art and Architecture of the World: AD 1000 to Present (4)

Computer Science
CS 1010 Introduction to Interactive Entertainment (3)

Dance
DANC 1010 Introduction to Dance (3)

English
ENGL 2250 Creative Writing (3)
ENGL 2260 Introduction to Writing Short Fiction (3)
ENGL 2270 Introduction to Writing Poetry (3)

Honors
HNRS 1530 Perspectives in the Creative Arts (3)
HNRS 2020 Exploring Key Concepts in the Disciplines: Creative Arts (3)

Interior Design
IDT 1010 Introduction to Interior Design (3)

Music
MUSC 1010 Introduction to Music (3)
MUSC 1030 Introduction to Jazz (3)
MUSC 1033 Introduction to American Music (3)
MUSC 1035 History of Rock and Roll (3)
MUSC 1040 Music of World Cultures (3)
MUSC 1063 Music in Religion (3)

Theatre
THEA 1013 Introduction to Theatre (3)
THEA 1023 Introduction to Film (3)
THEA 1033 Introduction to Acting (3)
THEA 1043 Introduction to American Musical Theatre (3)
THEA 1053 Introduction to Technical Production (3)

* Only one course from either ART or ARTH may be used to fulfill Creative Arts

*Only one Human Rights in the World (POLS/WGS 2500) may be used to fulfill Social Sciences.
BREADTH GENERAL EDUCATION REQUIREMENTS

DO NOT DUPLICATE DEPARTMENTS: Courses selected to fulfill breadth requirements must each be from a different program, with the exception of Honors.

PHYSICAL SCIENCES (PS) & LIFE SCIENCES (LS)

Select 9 credits (with at least 3 credits from Physical Sciences and at least 3 credits from Life Sciences) and earn a passing grade.

PHYSICAL SCIENCES (PS)

Chemistry
CHEM 1010 Introduction to Chemistry (3)
CHEM 1050 Introduction to General, Organic & Biochemistry (5)
CHEM 1110 General Chemistry (5)
CHEM 1210 Principles of Chemistry I (5)
CHEM 1360 Principles of Physical Chemistry (3)**

Geography
GEOG 1000 Natural Environments of the Earth (3)
GEOG 1500 The Science of Global Warming: Myths, Realities and Solutions (3)

Geosciences
GEO 1030 Earthquakes and Volcanoes (3)
GEO 1060 Environmental Geosciences (3)
GEO 1110 Dynamic Earth: Physical Geology (3)
GEO 1130 Introduction to Meteorology (3)
GEO 1350 Principles of Earth Science (3)

Honors
HNRS 1500 Perspectives in the Physical Sciences (3)
HNRS 2030 Exploring Key Concepts in the Disciplines: Physical Sciences (3)

Physics
PHYS 1010 Elementary Physics (3)
PHYS/ASTR 1040 Elementary Astronomy (3)**
PHYS 1360 Principles of Physical Science (3)**
PHYS 2010 College Physics I (5)
PHYS/ASTR 2040 Principles of Observational Astronomy (3)**
PHYS 2090 Environmental Physics: Energy and Power (3)
PHYS 2210 Physics for Scientists and Engineers I (5)

* Only one course from either GEOG or GEO may be used to fulfill Physical Sciences.
** Only one course from either PHYS or ASTR may be used to fulfill Physical Sciences.
*** Only one Principles of Physical Science (CHEM/PHYS 1360) may be used to fulfill Physical Sciences.

LIFE SCIENCES (LS)

Anthropology
ANTH 1020 Biological Anthropology (3)

Botany
BTNY 1203 Plant Biology (3)
BTNY 1303 Plants in Human Affairs (3)
BTNY 1370 Principles of Life Science (3)*
BTNY 1403 Environment Appreciation (3-4)

Health Sciences
ATHS 1110 Integrated Human Anatomy & Physiology I (4),
Honors
HNRS 1510 Perspectives in the Life Sciences (3)
HNRS 2040 Exploring Key Concepts in the Disciplines: Life Sciences (3)

Microbiology
MICR 1113 Introductory Microbiology (3)
MICR 1153 Elementary Public Health (3)
MICR 1370 Principles of Life Science (3)*
MICR 2054 Principles of Microbiology (4)

Nutrition
NUTR 1020 Science and Application of Human Nutrition (3)

Zoology
ZOOL 1010 Animal Biology (3)
ZOOL 1020 Human Biology (3)
ZOOL 1030 The Nature of Sex (3)
ZOOL 1110 Principles of Zoology (4)
ZOOL 1370 Principles of Life Science (3)*
ZOOL 2200 Human Physiology (4)

* Only one Principles of Life Science (BTNY/MICR/ZOOL 1370) may be used to fulfill Life Sciences.

WSU COURSES

Earn credit for TWO General Education areas by taking ONE course.

WSU courses are interdisciplinary, variable credit (3-5), team taught, and limited enrollment courses that satisfy requirements in two General Education areas (Core or Breadth). Must earn a passing grade.

Students may take as many WSU Courses as they wish, but only the non-overlapping General Education attributes from subsequent WSU Courses will count toward General Education requirements.

WSU Course
WSU 1450 Intersections of Art and Communication
WSU 1560 The Story and the Brain: Neuroscience & Literature
WSU 1560 Identity in the Digital Age
WSU 1560 Sustainability in Thought & Practice
WSU 1560 Research, Creativity, and Exploration Among Disciplines
WSU 1580 The Story and the Cell
WSU 1680 Microbes Rule: Impact of Disease on History
WSU 1680 The Sciences of Human Variation: From Sex to Gender & Race to Ethnicity
WSU 2340 Pattern Play: Movement and Mathematics
WSU 2350 Writing With Numbers
WSU 2420 Evil chemicals, drug scares, and big business

Counts toward these two General Education areas:
Humanities (HU) and Social Science (SS)
Humanities (HU) and Creative Arts (CA)
Humanities (HU) and Social Science (SS)
Humanities (HU) and Social Science (SS)
Humanities (HU) and Social Science (SS)
Humanities (HU) and Life Science (LS)
Social Science (SS) and Life Science (LS)
Social Science (SS) and Life Science (LS)
Quantitative Literacy* (QL) and Creative Arts (CA)
Quantitative Literacy* (QL) and Humanities (HU)
Social Science (SS) and Physical Science (PS)

* Check with your academic advisor for QL placement and requirement for your major

Avoid misadvising Yourself!

Consult your academic advisor (EASTAdvising@weber.edu), the WSU Catalog (weber.edu/catalog), and your CatTracks degree evaluation (log in to your eWeber Student Portal).

June 2019

A 4 credit hour Life Science is recommended. If you have already taken a 3 credit hour Life Science (LS), see an EAST Academic Advisor.