MANUFACTURING ENGINEERING TECHNOLOGY

WITH A CONCENTRATION IN

PRODUCTION OPERATIONS AND CONTROL

PLASTICS AND COMPOSITES

WELDING

design
decision making
operations
project management
applied statistics
modern manufacturing methods

IMPORTANT EWEBER PORTAL APPS

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Grad Maps
Financial Aid and Scholarships
University Catalog
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.

AMERICAN INSTITUTIONS (AI)
Select one of the following options and earn a “C” grade or better:
POLS 1100  American National Government (3)
HIST 1700  American Civilization (3)
ECON 1740  Economic History of the U.S. (3)
HIST 2700 & 2710  History of the U.S. to 1877 (3) AND History of the U.S. since 1877 (3) for History majors

MFET 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

MFET majors must take either MATH 1050\(^1\) 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 5  MATH (QL) 1050

OR

Level 1  MATH 0950
Level 2  MATH 0990
Level 3  MATH 1010
Level 5  MATH (QL) 1080 PreCalc

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.

Competency Exam    LIBS 1504 (1)

Courses
LIBS 1704  Information Navigator (3)
LIBS 2504  Info. Resources in History (1)
LIBS/EDUC 2604  Info. Resources in Education (1)
LIBS/BSD 2704  Info. Resources in Business Disciplines (1)
LIBS 2804  Info. Resources in Social Sciences (1)
LIBS/HTHS 2904  Info. Resources in Health Professions (1)

INFORMATION LITERACY (IL)  Recommended to take with ENGL 2010

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 1 = Diversity Credit
SS = Social Sciences Credit
PS = Physical Sciences Credit
LS = Life Sciences Credit
# BREADTH GENERAL EDUCATION REQUIREMENTS

**HUMANITIES (HU) & CREATIVE ARTS (CA)** 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 1020 Principles of Public Speaking (3)
- COMM 2010 Mass Media and Society (3)
- 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 2110 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 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

### 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**
- CJ 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)
- ECON 2020 Principles of Macroeconomics (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 1520 World History from 1500 C.E. to the Present (3)

### 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 1520 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)

**Management Information Systems**
- MIS 1100 The Digital Society (3)

**Physical Education Professional**
- PEP 2700 Sociohistorical Aspects of Sport (3)

**Psychology**
- PSY 1010 Introductory Psychology (3)
- PSY 2000 The Psychology of Human Relationships (3)

**Social Work**
- SW 1010 Introduction to Generalist Social Work (3)
- SW 2100 Human Behavior and the Social Environment I (3)
- SW 2200 Issues in Diversity (3)

**Sociology**
- SOC 1010 Introduction to Sociology (3)
- SOC 1020 Social Problems (3)

**Women & Gender Studies**
- WGS 1500 Introduction to Women & Gender Studies (3)
- WGS 2500 Human Rights in the World (3)

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

**Honors**
- HNRS 1520 Perspectives in the Social Sciences (3)
- HNRS 2050 Exploring Key Concepts in the Disciplines: Social Science (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)

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- SOC 1010 Introduction to Sociology (3)
- SOC 1020 Social Problems (3)

**Women & Gender Studies**
- WGS 1500 Introduction to Women & Gender Studies (3)
- WGS 2500 Human Rights in the World (3)

*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: Introductory Chemistry (3)
  - CHEM 1050: Introduction to General, Organic & Biochemistry (5)
  - **CHEM 1110:** Elementary Chemistry (5)
  - CHEM 1210: Principles of Chemistry I (5)**
  - CHEM 1360: Principles of Physical Science (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/ASTR 2040: Principles of Observational Astronomy (4)
  - PHYS 2210: Environmental Physics: Energy and Power (4)
  - 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/PYS 1360) may be used to fulfill Physical Sciences.

#### CHEM 1110 is required for MFET majors

#### PHYS 2010 OR PHYS 2210 is required for MFET majors

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#### 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**
  - HTHS 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 I (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.

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### 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.**

<table>
<thead>
<tr>
<th>WSU Course</th>
<th>WSU Course Title</th>
<th>Counts toward these two General Education areas:</th>
</tr>
</thead>
<tbody>
<tr>
<td>WSU 1450</td>
<td>Intersections of Art and Communication</td>
<td>Humanities (HU) and Social Science (SS)</td>
</tr>
<tr>
<td>WSU 1560</td>
<td>The Story and the Brain: Neuroscience &amp; Literature</td>
<td>Humanities (HU) and Social Science (SS)</td>
</tr>
<tr>
<td>WSU 1560</td>
<td>Identity in the Digital Age</td>
<td>Humanities (HU) and Social Science (SS)</td>
</tr>
<tr>
<td>WSU 1560</td>
<td>Sustainability in Thought &amp; Practice</td>
<td>Humanities (HU) and Social Science (SS)</td>
</tr>
<tr>
<td>WSU 1560</td>
<td>Research, Creativity, and Exploration Among Disciplines</td>
<td>Humanities (HU) and Social Science (SS)</td>
</tr>
<tr>
<td>WSU 1580</td>
<td>The Story and the Cell</td>
<td>Humanities (HU) and Life Science (LS)</td>
</tr>
<tr>
<td>WSU 1680</td>
<td>Microbes Rule: Impact of Disease on History</td>
<td>Social Science (SS) and Life Science (LS)</td>
</tr>
<tr>
<td>WSU 1680</td>
<td>The Sciences of Human Variation: From Sex to Gender &amp; Race to Ethnicity</td>
<td>Social Science (SS) and Life Science (LS)</td>
</tr>
<tr>
<td>WSU 2340</td>
<td>Pattern Play: Movement and Mathematics</td>
<td>Quantitative Literacy* (QL) and Creative Arts (CA)</td>
</tr>
<tr>
<td>WSU 2350</td>
<td>Writing With Numbers</td>
<td>Quantitative Literacy* (QL) and Humanities (HU)</td>
</tr>
<tr>
<td>WSU 2420</td>
<td>Evil chemicals, drug scares, and big business</td>
<td>Social Science (SS) and Physical Science (PS)</td>
</tr>
</tbody>
</table>

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

See course descriptions at https://www.weber.edu/GenEd/WSU_Courses.html

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**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