Lower Division General Education Requirements (39 units)

BLOCK A – Basic Subjects (9 units)
A1: COMM 1100 or HNRS 1100
A2: ENGL 1005B or ENGL 1010
A3: COMM1200/ENGL 1050/PHIL 1600/POLS 1555

American Institutions (6 units)
U.S. History
U.S. Constitution

BLOCK B – Natural Sciences & Mathematics/ Quantitative Reasoning (9 units)
B1 – PHYS 1560 and 1570
B2 – Biological
B3 – Interdisciplinary Physical / Biological
B4 – MATH 1000, 1020, or 1040

BLOCK C – Arts and Humanities (6 units)

BLOCK D – Social Sciences (6 units)

BLOCK E – Lifelong Understanding and Self-Development (3 units)
ENGR 1500 (3)

Requirements for the Program (72 units)

A total of 72 units are required with 48 semester units of required courses, 18 semester units in emphases, and 6 semester units in technical electives with advisor approval.

Required Courses (48 units):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECH 1300</td>
<td>Introduction to Graphic Communications</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>TECH 2340</td>
<td>Lithographic and Digital Reproduction Processes</td>
<td>3</td>
<td>TECH 1300</td>
</tr>
<tr>
<td>TECH 2500</td>
<td>Impact of Technology on the Individual and Society</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>TECH 3300</td>
<td>Graphic Communications Processes and Materials</td>
<td>3</td>
<td>Junior standing</td>
</tr>
<tr>
<td>TECH 4000</td>
<td>Written Communication Skills for Industrial Technology</td>
<td>3</td>
<td>Writing Proficiency Exam (WPE)</td>
</tr>
<tr>
<td>TECH 4340</td>
<td>Graphic Communications Production Management I</td>
<td>3</td>
<td>TECH 3300</td>
</tr>
<tr>
<td>TECH 4350</td>
<td>Color Theory, Reproduction, and Management</td>
<td>3</td>
<td>TECH 3300</td>
</tr>
<tr>
<td>TECH 4950</td>
<td>Industrial Technology Senior Project I</td>
<td>3</td>
<td>Completion of an area of concentration, senior standing, and/or instructor consent; must be taken in sequence starting with TECH 4950</td>
</tr>
<tr>
<td>TECH 4951</td>
<td>Industrial Technology Senior Project II</td>
<td>3</td>
<td>TECH 4950</td>
</tr>
<tr>
<td>CS 1200</td>
<td>Living in a Technology-Based World</td>
<td>3</td>
<td>None</td>
</tr>
<tr>
<td>CS 1220</td>
<td>Introduction to Website Development</td>
<td>3</td>
<td>Computer Literacy</td>
</tr>
<tr>
<td>CS 2010</td>
<td>Computer Programming Fundamentals</td>
<td>3</td>
<td>Computer Literacy</td>
</tr>
<tr>
<td>CS 1222</td>
<td>Introduction to Relational Databases</td>
<td>3</td>
<td>Computer Literacy</td>
</tr>
<tr>
<td>CS 3801</td>
<td>Societal and Ethical Issues in Computing</td>
<td>3</td>
<td>Junior or Senior standing</td>
</tr>
<tr>
<td>CS 1550</td>
<td>Fundamentals for Computer Graphics</td>
<td>3</td>
<td>GE mathematics requirement</td>
</tr>
<tr>
<td>CS 2550</td>
<td>Introduction to Computer Graphics tools</td>
<td>3</td>
<td>CS 1550</td>
</tr>
</tbody>
</table>
Options. Concentrations or Special Emphasis (18 units)

Computer Science Option: (18 units leading to a minor in Computer Science)

- **CS 2011** Introduction to Programming I (3) Prerequisites: MATH 1040 or consent of the instructor
- **CS 2012** Introduction to Programming II (3) Prerequisites: CS 2011, recommended MATH 2110
- **CS 2013** Programming with Data Structures (3) Prerequisites: CS 2012, recommended MATH 2120
- **CS 2445** Introduction to Computer Systems (3) Prerequisites: CS 2011
- **CS 3550** Game Development for Graphic Communications (3) Prerequisites: CS 1550
- **CS 3555** Mobile Development for Graphic Communications (3) Prerequisites: CS 1550

Management Option: (18 units leading to a minor in Operations and Supply Chain Management)

- **MGMT 3060** Operations Management (3) Prerequisites: None
- **MGMT 4500** Case Studies in Operations Management (3) Prerequisites: MGMT 3060
- **MGMT 4504** Supply Chain Management (3) Prerequisites: MGMT 3060

Select 3 additional courses for a total of 9 units from the following:

- **MGMT 4501** Process Design and Improvement (3) Prerequisites: MGMT 3060 or equivalent
- **MGMT 4502** Production and Inventory Management (3) Prerequisites: MGMT 3060
- **MGMT 4503** Total Quality Management (3) Prerequisites: MGMT 3060
- **MGMT 4505** Project Management (3) Prerequisites: None
- **MGMT 4506** Service Management (3) Prerequisites: MGMT 3060 and MGMT 3070
- **MGMT 4507** Operations Research (3) Prerequisites: MGMT 3060
- **MGMT 4105** Managerial Leadership and Motivation (3) Prerequisites: MGMT 3070

Electives (6 units)

Select 6 units with the approval of an advisor

General Education Upper Division Theme (9 units)

- **UPPER DIVISION GE THEME** 3 Courses (9 units)

Notes:
- GE requirements must add up to at least 48 semester units. (39 Lower Division, 9 Upper Division units).
- An Introduction to Higher Education course (IHE) is required of all first-time freshman.
- A minimum C- grade in A1, A2, A3, and B4 classes is required. This does not apply to meeting prerequisite for courses that require these courses to be completed with a grade of C or better.
- A minimum C grade average in general education is required of all students following the Fall 2016 or later catalog.
- Civic Learning/Community Engagement Requirement (6 semester units). Three semester units will be fulfilled by completing the IHE course. One (cl) course must be completed at the upper division general education level. These courses are designated as (cl) after the course listing.
- Diversity Requirement (6 semester units). Students must complete one race/ethnicity (re) course and one diversity(d) course or another race/ethnicity (re) course. These courses are designated as (re) and (d) after the course listing.
- Writing Intensive Requirement (6 semester units). Students must complete two writing intensive (wi) courses, with at least one in their major. These courses are designated as (wi) after the course listing.