Bachelor of Science in Computer Science  
2018-2020 Catalog

**Overall Requirements to Graduate**
- 126+ semester hours
- Completion of core curriculum
- Completion of a major
- 36 upper division credit hours
- GPA above 2.0
- Major GPA above 2.0
- Minor/Program complete (optional)

**Core Curriculum (46 hours)**

<table>
<thead>
<tr>
<th>Theology (9 credit hours) Must take in order. (Pre-req: Phil 1311 or 1315/3315)</th>
<th>Students with 30-59 transfer hrs: 6-9 hours THEO 3 hours PHIL (18 hours total)</th>
<th>Students with 60+ transfer hrs: 6 hours THEO 6 hours PHIL NO synthesis (12 hours total)</th>
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</thead>
<tbody>
<tr>
<td>THEO 1301/3301 Intro to Sacred Scriptures</td>
<td>6-9 hours THEO</td>
<td>6 hours THEO</td>
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<tr>
<td>THEO 2301/3311 Teachings of the Catholic Church</td>
<td>6-9 hours PHIL</td>
<td>6 hours PHIL</td>
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<tr>
<td>THEO 3349 Christ and the Moral Life (Phil 2314 or 2316/3316)</td>
<td>NO synthesis</td>
<td>NO synthesis</td>
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**Philosophy (9 credit hours) Choose one sequence:**
- Systematic Sequence (must take in order)
  - PHIL 1311 Philosophy of the Human Person
  - PHIL 2314 Ethics
  - PHIL 3313 Metaphysics
- Historical Sequence (must take in order)
  - PHIL 1315/3315 Ancient Philosophy
  - PHIL 2316/3316 Medieval Philosophy
  - PHIL 3317 – Modern Philosophy

**Synthesis Course (3 credit Hours)**
Choose one synthesis course from the Synthesis Course List.

**English (9 credit hours)* Must take in order.**
- ENGL 1341 The Classical Tradition: Literature & Composition I
- ENGL 1342 The Middle Ages: Literature & Composition II
- ENGL 2312 The Modern World: Literature & Composition III

*Students with transfer credit:
  - 3 transfer credits: Take 1341/1342 (left)
  - 6 transfer credits: Take ENGL 3312 (below)
  - ENGL 3312 Perspectives in World Lit.

**History (6 credit hours) Choose one pair of courses:**
- World History
  - HIST 1335 World Community I
  - HIST 1336 World Community II
- U.S. History
  - HIST 2333 U.S. History to 1877
  - HIST 2334 U.S. History since 1877

**Social and Behavioral Sciences (6 credit hours) Choose one option:**
- Social and Behavioral Sciences Option
  - Choose two courses from the Social and Behavioral Sciences Core course list.
- Social and Behavioral Sciences + Oral Communication Option
  - Choose one course from the Social & Behavioral Sciences Core course list.
  - Choose one course from the Communication Core Course list.

**Natural Sciences (8-10 credit hours) Choose one option:**
- Natural Sciences Option (8 credit hours)
  - Choose two lecture/laboratory courses from the Natural Sciences Core course list.
- Natural Sciences + Modern and Classical Language Option (10 credit hours)
  - Choose one lecture/laboratory course from the Natural Sciences Core course list.
  - Choose two sequential courses in a language. Courses must be completed in order

**Mathematics (3 credit hours)**
Choose one course from the Mathematics Core Course list.

**Fine Arts (3 credit hours)**
Choose one course from the Fine Arts Core Course list.

**Freshman Symposium (1 credit hour) Required for all incoming freshmen.**
- UNIV 1111 Freshman Symposium
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Major Requirements (64 credit hours)

<table>
<thead>
<tr>
<th>Completed</th>
<th>Needed</th>
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<tbody>
<tr>
<td>Computer Science (28 credit hours)</td>
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- COMSC 1450 – Introduction to Programming and Computer Science
- COMSC 1351 – Object Oriented Programming (pre-req MATH 1431, COMSC 1450)
- COMSC 2351 – Data Structures (pre-req COMSC 1351)
- COMSC 3365 – Computer Organization and Programming Languages (pre-req COMSC 1351)
- COMSC 3375 – Database Systems (pre-req COMSC 1351)
- COMSC 3385 – Computer and Network Architecture (pre-req COMSC 1351)
- COMSC 4320 – Operating Systems (pre-req COMSC 3385)
- COMSC 4330 – Human and Social Factors (pre-req COMSC 2351)
- COMSC 4350 – Software Project Management [Capstone] (pre-req Senior Standing)

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<tr>
<th>Additional Upper-Division Course (3 credit hours):</th>
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- COMSC 4393 – Special topics (with approval of Department Chair)

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<th>Mathematics (25 credit hours)</th>
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- MATH 1431 – Calculus I
- MATH 1432 – Calculus II (MATH 1431 with a grade of C or better)
- MATH 2431 – Calculus III (MATH 1432 with a grade of C or better)
- MATH 3334 – Linear Algebra I (MATH 1432)
- MATH 3335 – A First Course in Probability (MATH 1432)
- MATH 3360 – Discrete Mathematics (MATH 1431)
- MATH 3450/1050 – Biostatistics I (pre-req six credit hours in natural science or mathematics)

<table>
<thead>
<tr>
<th>Physics or Chemistry (8 credit hours)</th>
<th>Completed</th>
<th>Needed</th>
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<tr>
<td>Choose one pair of classes.</td>
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- PHYS 2333/2111 University Physics I w/ lab (MATH 1431)
- PHYS 2334/2112 – University Physics II w/ lab (MATH 1432, PHYS 2333)
- CHEM 1341/1141 General Chemistry I w/ lab
- CHEM 1342/1142 General Chemistry II w/lab

Electives

<table>
<thead>
<tr>
<th>Electives</th>
<th>Completed</th>
<th>Needed</th>
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<th>Electives to reach the 126 hour minimum to graduate (16 credit hours)</th>
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One additional course completes a Mathematics minor: (optional)

- MATH 2343 – Differential Equations

Totals

<table>
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<tr>
<th>Completed</th>
<th>Needed</th>
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Total undergraduate hours (126 minimum):

MINIMUM TOTAL: 126+