# COMPUTER SCIENCE – APPLIED OPTION

## FIRST YEAR

### Fall
- **CS 160**: Computer Science Orientation (F (3))
- **MTH 251**: Differential Calculus (F, W, S, U, E (4))
- **WR 121**: English Composition Alpha Sectioned (F, W, S, U, E (3))
- **HHS 231 + 241/PAC**: Lifetime Fitness (F, W, S, U, E (2+1))

### Winter
- **Co-Req MTH 112**
- **CS 161**: Intro to Comp. Sci. I C++ (F, W, S, U, E (4))
- **MTH 252**: Integral Calculus (F, W, S, U, E (4))
- **COMM 111/114**: Speech (F, W, S, U (3))

### Spring
- **MTH 112**
- **CS 162**: Intro to Comp. Sci. II C++, C (F, W, S, U, E (4))
- **MTH 231**: Discrete Math I (F, W, S, U, E (4))
- **Perspectives**: Social Processes & Institutions (F, W, S, U, E (3))

### Notes:
1. F, W, S, U: Represents the term the course is offered (Fall, Winter, Spring, Summer, Ecampus)
2. ( ): Represents the credits of the course
3. Arrows: Represents prerequisites and co-requisites for that course
4. Shaded courses are required prior to admission to the Professional Program
5. Summer Courses may be cancelled due to low enrollment

## SECOND YEAR

### Fall
- **MTH 231 & CS 162**
- **CS 261**: Data Structures C (F, W, S, U, E (4))
- **ST 314**: Statistics for Engineers (F, W, S, U, E (3))
- **Perspectives**: Literature & Arts (F, W, S, U, E (3))

### Winter
- **WR 121**
- **CS 271**: Computer Arch. & Assembly Lang. (F, W, U, E (4))
- **Perspectives**: Physical Science (F, W, S, U, E (4))
- **Electives** (3)

### Spring
- **WR 327**: Technical Writing (F, W, S, U, E (3))
- **CS 290**: Web Development (F, S, U, E (4))
- **Difference, Power & Discrimination** (F, W, S, U, E (3))

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#### THIRD YEAR

**Academic Year 2017-2018**

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<tr>
<th>Fall</th>
<th>Winter</th>
<th>Spring</th>
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<tbody>
<tr>
<td>CS 261, CS 271</td>
<td>CS 261, MTH 231</td>
<td>CS 261 &amp; 271</td>
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#### FOURTH YEAR

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<th>Fall</th>
<th>Winter</th>
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<tr>
<td>CS 344 &amp; 271</td>
<td>CS 361 &amp; MTH 231</td>
<td>CS 361</td>
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<tr>
<td>CS 344 Operating Systems II F, S (4)</td>
<td>CS 461 Senior Capstone I F (3)</td>
<td>CS 462 Senior Capstone II Must be taken sequentially: W (3)</td>
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<td>CS 391 Social/Ethical Issues (STS Synthesis) F, W, S, U, E (3)</td>
<td>CS Elective (3-4)</td>
<td>CS 352 Intro. to Usability Engineering W, E (4)</td>
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<td>CS Elective (3-4)</td>
<td>Approved Applied Elective (4)</td>
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**Notes:**
1. Textured courses are Professional Program courses
2. Summer Courses may be cancelled due to low enrollment
3. CS 391 counts for both Major and Science, Technology and Society (Synthesis) credits
4. Experience with C programming is required to begin Professional Program courses
5. 180 total credits are needed to graduate
6. Approved Applied Plans require 32 credits approved by the Curriculum Committee