# COMPUTER SCIENCE – COMPUTER SYSTEMS OPTION

## FIRST YEAR  
**Academic Year 2014-2015**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Term(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 160</td>
<td>Computer Science Orientation</td>
<td>F (4)</td>
<td>Fall</td>
</tr>
<tr>
<td>MTH 112</td>
<td>Differential Calculus</td>
<td>F, W, S, U (4)</td>
<td>Co-Req</td>
</tr>
<tr>
<td>WR 121</td>
<td>English Composition Alpha Sectioned</td>
<td>F, W, S, U (3)</td>
<td>Co-Req</td>
</tr>
<tr>
<td>HHS 231 + 241/PAC</td>
<td>Lifetime Fitness</td>
<td>F, W, S, U (2+1)</td>
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</tr>
</tbody>
</table>

## SECOND YEAR

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Term(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 162</td>
<td>Intro to Comp. Sci. I C++</td>
<td>F, W, S, U (4)</td>
<td>Co-Req</td>
</tr>
<tr>
<td>MTH 251</td>
<td>Integral Calculus</td>
<td>F, W, S, U (4)</td>
<td>Co-Req</td>
</tr>
<tr>
<td>MTH 252</td>
<td>Discrete Math I</td>
<td>F, W, S, U (4)</td>
<td>Co-Req</td>
</tr>
<tr>
<td>COMM 111/114</td>
<td>Speech</td>
<td>F, W, S, U (3)</td>
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</tr>
<tr>
<td>PH 211+221</td>
<td>Physics with Calculus</td>
<td>F, W, S, U (5)</td>
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</tr>
<tr>
<td>MTH 231</td>
<td>Data Structures C</td>
<td>F, W, S, U (4)</td>
<td></td>
</tr>
<tr>
<td>MTH 254</td>
<td>Vector Calculus</td>
<td>F, W, S, U (4)</td>
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<tr>
<td>PH 212+222</td>
<td>Physics with Calculus</td>
<td>F, W, S (5)</td>
<td></td>
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<tr>
<td>PH 213+223</td>
<td>Physics with Calculus</td>
<td>W, S, U (5)</td>
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<tr>
<td>MTH 306</td>
<td>Matrix &amp; Power Series Methods</td>
<td>F, W, S, U (4)</td>
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<tr>
<td>WR 214/222</td>
<td>Writing for Bus./English Comp.</td>
<td>F, W, S, U (3)</td>
<td></td>
</tr>
<tr>
<td>ST 314</td>
<td>Statistics for Engineers</td>
<td>F, W, S, U (3)</td>
<td></td>
</tr>
</tbody>
</table>

### Notes:
1. F, W, S, U: Represents the term the course is offered (Fall, Winter, Spring, and Summer)
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
### Computer Science – Computer Systems Option

#### Third Year

**Fall**
- **CS 344** Operating Systems I  
  F, W, U (4)
- **CS 361** Software Engineering I  
  F, W, U (4)
- **CS 321** Intro. Theory of Computation  
  F, U (3)
- **WR 327** Technical Writing  
  F, W, S, U (3)

**Winter**
- **CS 344**, **ECE 271**
- **CS 361**, **ECE 271**
- **CS 261**, **MTH 231**

**Spring**
- **CS 372** Intro. to Computer Networks  
  F, W, S, U (4)
- **CS 362** Software Engineering II  
  W, S (4)
- **CS 325** Analysis of Algorithms  
  F, W, U (4)

**Fall**
- **CS 381** Programming Language Fund.  
  W, S, U (4)

**Winter**
- **CS 361**
- **MTH 306**

**Spring**
- **CS 351** Intro. to Numerical Analysis  
  F, W, S, U (3)
- **CS 381**: Programming Language Fund.
- **WR 121**

#### Fourth Year

**Fall**
- **CS 444** Operating Systems II  
  F, S (4)
- **CS 461** Senior Capstone I  
  F (3)
- **CS Elective**  
  (3-4)

**Winter**
- **CS 462** Senior Capstone II  
  F, W, S (3)
- **Liberal Arts Elective**  
  (3)

**Spring**
- **CS 463** Senior Capstone III  
  F, W, S (3)
- **Liberal Arts Elective**  
  (3)
- **Liberal Arts Elective**  
  (3)

**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.