# COMPUTER SCIENCE – APPLIED OPTION

## FIRST YEAR

### Academic Year 2016-2017

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Term</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 160</td>
<td>Computer Science Orientation</td>
<td>Fall</td>
<td>3</td>
</tr>
<tr>
<td>CS 161</td>
<td>Intro to Comp. Sci. I C++</td>
<td>Fall</td>
<td>4</td>
</tr>
<tr>
<td>MTH 251</td>
<td>Differential Calculus</td>
<td>Winter</td>
<td>4</td>
</tr>
<tr>
<td>MTH 252</td>
<td>Integral Calculus</td>
<td>Winter</td>
<td>4</td>
</tr>
<tr>
<td>WR 121</td>
<td>English Composition Alpha Sectioned</td>
<td>Spring</td>
<td>3</td>
</tr>
<tr>
<td>HHS 231 + 241</td>
<td>Lifetime Fitness</td>
<td>Spring</td>
<td>2+1</td>
</tr>
</tbody>
</table>

### 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
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THIRD YEAR

Fall
CS 261, CS 271
CS 344 Operating Systems I F, W, U, E (4)
CS 361 Software Engineering I F, W, U, E (4)
Approved Applied Elective (4)

Winter
CS 261, MTH 231
CS 325 Analysis of Algorithms F, W, U, E (4)
CS 362 Software Engineering II W, S, E (4)
Approved Applied Elective (4)

Spring
CS 261 & 271
CS 372 Intro. to Computer Networks F, W, S, U, E (4)
CS 381 Programming Language Fund. W, S, U (4)
Approved Applied Elective (4)

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

FOURTH YEAR

Fall
CS 344 & 271
CS 444 Operating Systems II F, S (4)
CS 362 & 461
CS 462 Senior Capstone II F (3)
CS Elective (3-4)

Winter
CS 361
CS 461 Senior Capstone I W, S, U, E (3)
CS Elective (3-4)

Spring
CS 362 & 461
CS 391 Social/Ethical Issues (STS Synthesis) F, W, S, U, E (3)
CS Elective
CS 352 Intro. to Usability Engineering W, E (4)
CS Elective (3-4)

CS 290
CS 340 Introduction to Databases F, S, E (4)
CS 463 Senior Capstone III S (2)
CS 161
CS Elective