COMPUTER SCIENCE – APPLIED OPTION

FIRST YEAR

Academic Year 2017-2018

SECOND 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**
- **CS 161** Intro to Comp. Sci. II  
  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)
- **Perspectives** Biological Science  
  F, W, S, U, E (4)

**Fall**
- **CS 162** Data Structures C  
  F, W, S, U, E (4)
- **MTH 252** Integral Calculus  
  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**
- **CS 261** Computer Arch. & Assembly Lang.  
  F, W, U, E (4)
- **Perspectives** Physical Science  
  F, W, S, U, E (4)
- **Electives**  
  (3)

**Spring**
- **CS 271** Computer Arch. & Assembly Lang.  
  F, W, U, E (4)
- **Perspectives** Cultural Diversity  
  F, W, S, U, E (3)
- **Difference, Power & Discrimination**  
  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
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THIRD YEAR

Academic Year 2017-2018

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 Elective (4)
Approved Elective (4)

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

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

Winter
CS 361, MTH 231
CS 391 Social/Ethical Issues (STS Synthesis) F, W, S, U, E (3)
CS 362 & 461
CS 462 Senior Capstone II be taken sequentially: W (3)
Must be taken sequentially: F, W, S

Spring
CS 361
CS 463 Senior Capstone III S (2)
CS Elective (3-4)

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