

## B.S. Computer Science (EVEN Start Year)

2017-18 Sample Course Schedule - This is a recommended schedule and may be altered as needed. Consult your advisor when making changes. See degree audit for Christian Service requirements.

| <b>FALL</b>                   |  | <b>WINTER</b>        |  |            |
|-------------------------------|--|----------------------|--|------------|
| <b>FIRST YEAR (FALL EVEN)</b> |  | <b>(WINTER ODD)</b>  |  |            |
| NOND 101                      | Southern Connections (IN-1)                | 1                    | CPTR 124 Fund of Programming                       | 4          |
| CPTR 108                      | #EssenceofComputing                        | 3                    | MATH 192 Calculus II                               | 4          |
| COMM 135                      | Intro to Public Speaking (IN-3)            | 3                    | ENGL 102 Critical Think in Ac Rdg & Wrtg II (IN-2) | 3          |
| MATH 191                      | Calculus I                                 | 4                    | PEAC 125 Fitness for Collegiate Life (P-1)         | 1          |
| ENGL 101                      | Critical Think in Ac Rdg & Wrtg I (IN-2)   | <u>3</u>             | RELB 125 or RELT 177 (R-1)                         | <u>3</u>   |
|                               |  | <b>14</b>            |  | <b>15</b>  |
| <b>SECOND YEAR (FALL ODD)</b> |  | <b>(WINTER EVEN)</b> |  |            |
| CPHE 200                      | Digital Logic and Design                   | 4                    | CPHE 222 Organ, Arch & Assembly Language           | 4          |
| MATH 280                      | Discrete Math Structures                   | 3                    | MATH 200 Elementary Linear Algebra                 | 2          |
| PSYC 128                      | Developmental Psych (IN-8)                 | 3                    | History (IN-6) (W)                                 | 3          |
| CPTR 215                      | Fundamentals of Software Design            | 4                    | Natural Science/Math Elective <sup>1</sup>         | 3          |
|                               | Electives                                  | <u>2</u>             | Electives  | 3          |
|                               |  | <b>16</b>            | Physical Activity (P-2)                            | <u>1</u>   |
|                               |  |                      |  | <b>16</b>  |
| <b>THIRD YEAR (FALL EVEN)</b> |  | <b>(WINTER ODD)</b>  |  |            |
| MATH 215                      | Statistics (IN-4)                          | 3                    | CPTR 319 Database Management Systems               | 3          |
|                               | U.D. CPTR/CPHE Elective                    | 3                    | CPTR 318 Data Structures & Algorithms              | 3          |
|                               | U.D. CPHE/CPTR Elective <sup>3</sup>       | 3                    | CPTR 365 Operating Systems                         | 3          |
|                               | Natural Science w/lab <sup>2</sup> (IN-7)  | 4                    | Natural Science w/lab <sup>2</sup>                 | 4          |
|                               | RELT 138, 225 or 255 (R-2)                 | <u>3</u>             | Aesthetic Analysis (IN-10)                         | <u>3</u>   |
|                               |  | <b>16</b>            |  | <b>16</b>  |
| <b>FOURTH YEAR (FALL ODD)</b> |  | <b>(WINTER EVEN)</b> |  |            |
| CPTR 486                      | Senior Seminar (W)                         | 2                    | CPTR 309 Software Engineering                      | 4          |
| RELB                          | U.D. Biblical Studies (R-3)                | 3                    | CPTR 405 Organization of Programming Lang.         | 3          |
|                               | Natural Science/Math Elective <sup>1</sup> | 3                    | CPTR 488 Senior Project                            | 2          |
|                               | Physical Activity (P-2)                    | 1                    | PEAC 425 Fit for Hire (P-3)                        | 1          |
|                               | Econ. & Bus. Basics (IN-9)                 | 3                    | U.D. Electives                                     | 3          |
|                               | U.D. Electives                             | <u>3</u>             | U.D. Religion Electives (R-4) (W)                  | <u>3</u>   |
|                               |  | <b>15</b>            |  | <b>16</b>  |
| <b>TOTAL HOURS</b>            |  |                      |  | <b>124</b> |

<sup>1</sup>MATH 218 or any upper division MATH or BIOL 151, 152 or any upper division BIOL except BIOL 421; CHEM 151, 152 or any upper division CHEM COURSE; PHYS 211-214, 221-224 or any upper division PHYS course except PHYS 317.

<sup>2</sup>BIOL 151, 152; CHEM 151, 152; PHYS 211-214, 221-224.

<sup>3</sup>CPTR 328 - Principles of Networking Recommended

# B.S. Computer Science (ODD Start Year)

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## FALL

## WINTER

### FIRST YEAR (FALL ODD)

|          |  |          |
|----------|--|----------|
| NOND 101 | Southern Connections (IN-1)              | 1        |
| CPTR 108 | #EssenceofComputing                      | 3        |
| COMM 135 | Intro to Public Speaking (IN-3)          | 3        |
| MATH 191 | Calculus I                               | 4        |
| ENGL 101 | Critical Think in Ac Rdg & Wrtg I (IN-2) | <u>3</u> |

|          |   |
|----------|---|
| CPTR 124 | 4 |
| MATH 192 | 3 |
| ENGL 102 | 3 |
| PEAC 125 | 4 |

**14**

### (WINTER EVEN)

|   |          |
|---|----------|
| Fund of Programming                       | 4        |
| Calculus II                               | 4        |
| Critical Think in Ac Rdg & Wrtg II (IN-2) | 3        |
| Fitness for Collegiate Life (P-1)         | 1        |
| RELB 125 or RELT 177 (R-1)                | <u>3</u> |

**15**

### SECOND YEAR (FALL EVEN)

|          |                                 |          |
|----------|---------------------------------|----------|
| CPHE 200 | Digital Logic and Design        | 4        |
| MATH 280 | Discrete Math Structures        | 3        |
| PSYC 128 | Developmental Psych (IN-8)      | 3        |
| CPTR 215 | Fundamentals of Software Design | 4        |
|          | Electives                       | <u>2</u> |

**16**

### (WINTER ODD)

|  |          |
|--|----------|
| Organ, Arch & Assembly Language            | 4        |
| Elementary Linear Algebra                  | 2        |
| Data Structures & Algorithms               | 3        |
| Electives                                  | 3        |
| Natural Science/Math Elective <sup>1</sup> | 3        |
| Physical Activity (P-2)                    | <u>1</u> |

**16**

### THIRD YEAR (FALL ODD)

|          |   |          |
|----------|---|----------|
| MATH 215 | Statistics (IN-4)                         | 3        |
|          | U.D. CPHE/CPTR Elective <sup>3</sup>      | 3        |
|          | Natural Science w/lab <sup>2</sup> (IN-7) | 4        |
|          | RELT 138, 225 or 255 (R-2)                | 3        |
|          | Aesthetic Analysis (IN-10)                | <u>3</u> |

**16**

### (WINTER EVEN)

|          |                                    |          |
|----------|------------------------------------|----------|
| CPTR 309 | Software Engineering               | 4        |
| CPTR 365 | Operating Systems                  | 3        |
| CPTR 405 | Organization of Programming Lang.  | 3        |
|          | Physical Activity (P-2)            | 1        |
|          | Natural Science w/lab <sup>2</sup> | <u>4</u> |

**15**

### FOURTH YEAR (FALL EVEN)

|         |  |          |
|---------|--|----------|
| CPTR486 | Senior Seminar (W)                         | 2        |
| RELB    | U.D. Biblical Studies (R-3)                | 3        |
|         | Natural Science/Math Elective <sup>1</sup> | 3        |
|         | History (IN-6) (W)                         | 3        |
|         | Econ. & Bus. Basics (IN-9)                 | 3        |
|         | U.D. Electives                             | <u>2</u> |

**16**

### (WINTER ODD)

|          |                                   |          |
|----------|-----------------------------------|----------|
| CPTR 488 | Senior Project                    | 2        |
| CPTR 319 | Database Management Systems       | 3        |
| PEAC 425 | Fit for Hire (P-3)                | 1        |
|          | U.D. CPTR/CPHE Elective           | 3        |
|          | U.D. Electives                    | 4        |
|          | U.D. Religion Electives (R-4) (W) | <u>3</u> |

**16**

**TOTAL HOURS**

**124**

<sup>1</sup>MATH 218 or any upper division MATH or BIOL 151, 152 or any upper division BIOL except BIOL 421; CHEM 151, 152 or any upper division CHEM COURSE; PHYS 211-214, 221-224 or any upper division PHYS course except PHYS 317.

<sup>2</sup>BIOL 151, 152; CHEM 151, 152; PHYS 211-214, 221-224.

<sup>3</sup>CPTR 328 - Principles of Networking Recommended