

**MONMOUTH UNIVERSITY**

Office of the Registrar

2017\*2018 Sequence Chart

**CS.A.BS.17**

**SEMESTER 1**

| COURSE CODE             | GEN*ED REQ'MT | COURSE* TYPE | TITLE                          | CRS.        |
|-------------------------|---------------|--------------|--------------------------------|-------------|
| EN101                   | YES           |              | COLLEGE COMPOSITION 1          | 3.0         |
| CS102                   | YES           | TL           | INTRO. TO COMP. PROB. SOLV.    | 4.0         |
| AR, MU, TH, DA          | YES           | AT           | GEN*ED AESTHETICS              | 3.0         |
| HS*xxx                  | YES           | HS.SV        | GEN*ED HISTORICAL PERSPECTIVES | 3.0         |
| FY101                   | YES           |              | FIRST YEAR SEMINAR             | 3.0         |
| <b>SEMESTER CREDITS</b> |               |              |                                | <b>16.0</b> |

**SEMESTER 3**

| COURSE CODE             | GEN*ED REQ'MT | COURSE* TYPE | TITLE                         | CRS.        |
|-------------------------|---------------|--------------|-------------------------------|-------------|
| CS176                   |               |              | INTRO. TO COMPUTER SCIENCE II | 4.0         |
| xxx                     | YES           | SS.SV        | GEN*ED SOCIAL SCIENCE SURVEY  | 3.0         |
| CS202                   |               |              | DISCRETE MATH                 | 4.0         |
| MA125                   |               |              | CALCULUS WITH ANAL. GEO. I    | 4.0         |
|                         |               |              |                               |             |
| <b>SEMESTER CREDITS</b> |               |              |                               | <b>15.0</b> |

**B.S. IN COMPUTER SCIENCE WITH A CONCENTRATION IN  
ADVANCED COMPUTING**

**SEMESTER 2**

| COURSE CODE             | GEN*ED REQ'MT | COURSE* TYPE   | TITLE   | CRS.        |
|-------------------------|---------------|----------------|---|-------------|
| EN102                   | YES           |                | COLLEGE COMPOSITION 2                                   | 3.0         |
| xxx                     |               |                | FREE ELECTIVE   | 3.0         |
| CS175                   |               |                | INTRO. TO COMPUTER SCIENCE I1                           | 4.0         |
| xxx                     | YES           | HS.SV or SS.SV | GEN*ED HISTORICAL PERSPECTIVE or SOCIAL SCIENCE         | 3.0         |
| MA109                   | YES           |                | PRE-CALCULUS (if needed)<br>(Otherwise , free elective) | 4.0         |
| <b>SEMESTER CREDITS</b> |               |                |   | <b>17.0</b> |

**SEMESTER 4**

| COURSE CODE             | GEN*ED REQ'MT | COURSE* TYPE | TITLE                        | CRS.        |
|-------------------------|---------------|--------------|------------------------------|-------------|
| CS205                   |               |              | DATA STRUCTURES & ALGORITHMS | 4.0         |
| CS286                   |               |              | COMPUTER ARCHITECTURE I      | 3.0         |
| MA126                   |               |              | CALCULUS WITH ANAL. GEO. II  | 4.0         |
| EN*xxx                  | YES           | LIT          | GEN*ED LITERATURE            | 3.0         |
| xxx                     |               |              | FREE ELECTIVE                | 3.0         |
| <b>SEMESTER CREDITS</b> |               |              |                              | <b>17.0</b> |

SEE CURRICULUM CHART or DEGREE AUDIT FOR COMPLETE TITLE OF ALL COURSES. BE CERTAIN TO CONSULT WITH YOUR ADVISOR.

SEE WEBadvisor "SECTIONS OFFERED BY TERM" FOR COMPLETE LISTING OF COURSES WITH ASSOCIATED COURSE\*TYPES.

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**SEMESTER 5**

| COURSE CODE             | GEN*ED REQ'MT | COURSE* TYPE | TITLE  | CRS.        |
|-------------------------|---------------|--------------|--|-------------|
| CS310                   | YES           | WT           | OBJECT-ORIENTED PROGRAM.                       | 4.0         |
| CS200+                  |               |              | COMPUTER SCIENCE ELECTIVE                      | 3.0         |
| MA220                   |               |              | PROBABLILITY & STATS. I                        | 3.0         |
| xxx                     | YES           | CD           | GEN*ED CULTURAL DIVERSITY                      | 3.0         |
| LAB SCIENCE             | YES           | NS           | OUTSIDE THE MAJOR SCIENCE SEE CURRICULUM CHART | 4.0         |
| <b>SEMESTER CREDITS</b> |               |              |  | <b>17.0</b> |

**SEMESTER 7**

| COURSE CODE             | GEN*ED REQ'MT | COURSE* TYPE | TITLE                                   | CRS.        |
|-------------------------|---------------|--------------|---|-------------|
| CS432                   |               |              | DATABASE SYSTEMS                        | 4.0         |
| CS325                   | YES           | WT           | SOFTWARE ENG. CONCEPTS                  | 3.0         |
| BY, CE, PH              |               |              | OUTSIDE THE MAJOR SCIENCE               | 4.0         |
| xxx                     | YES           | EX           | FREE ELECTIVES (GEN*ED EXPERIENTIAL ED) | 1.0         |
| xxx                     |               |              | FREE ELECTIVES                          | 3.0         |
| <b>SEMESTER CREDITS</b> |               |              |   | <b>15.0</b> |

**B.S. IN COMPUTER SCIENCE WITH A CONCENTRATION IN  
ADVANCED COMPUTING**

**SEMESTER 6**

| COURSE CODE             | GEN*ED REQ'MT | COURSE* TYPE | TITLE  | CRS.        |
|-------------------------|---------------|--------------|--|-------------|
| xxx                     | YES           | GU           | GEN*ED GLOBAL UNDERSTAND.                      | 3.0         |
| CS438                   |               |              | OPERATING SYSTEMS ANALYSIS                     | 4.0         |
| CS200+                  |               |              | COMPUTER SCIENCE ELECTIVE                      | 3.0         |
| LAB SCIENCE             | YES           | NS           | OUTSIDE THE MAJOR SCIENCE SEE CURRICULUM CHART | 4.0         |
| xxx                     |               |              | FREE ELECTIVES                                 | 4.0         |
| <b>SEMESTER CREDITS</b> |               |              |  | <b>18.0</b> |

**SEMESTER 8**

| COURSE CODE             | GEN*ED REQ'MT | COURSE* TYPE | TITLE                                      | CRS.        |
|-------------------------|---------------|--------------|--|-------------|
| CS490                   | YES           | RD           | SENIOR PROJECT                             | 4.0         |
| CS400+                  |               |              | COMPUTER SCIENCE ELECTIVES                 | 3.0         |
| xxx                     | YES           | ISP          | GEN*ED INTERDISCIPLINARY PERSPECTIVES      | 3.0         |
| BY, CE, PH, MA          |               |              | OUTSIDE THE MAJOR MATH-SCIENCE REQUIREMENT | 3.0         |
| <b>SEMESTER CREDITS</b> |               |              |  | <b>13.0</b> |