

# MONMOUTH UNIVERSITY

Office of Registration and Records

## 2012\*2013 Sequence Chart

### CE.CP11.GE12

### B.S. IN CHEMISTRY AND A CONCENTRATION IN CHEMICAL PHYSICS

#### SEMESTER 1

| COURSE CODE             | GEN*ED REQ'MT | COURSE* TYPE | TITLE                        | CRS.        |
|-------------------------|---------------|--------------|------------------------------|-------------|
| EN101                   | YES           |              | COLLEGE COMPOSITION 1        | 3.0         |
| CE111 & CE111L          | YES           |              | GENERAL CHEMISTRY I & LAB    | 4.0         |
| IT102                   | YES           | TL           | INFORM. TECH. FOR SCIENTISTS | 3.0         |
| MA125                   | YES           |              | CALCULUS W/ANAL. GEOMETRY    | 4.0         |
| FY101                   | YES           |              | FIRST YEAR SEMINAR           | 3.0         |
| <b>SEMESTER CREDITS</b> |               |              |                              | <b>17.0</b> |

#### SEMESTER 2

| COURSE CODE             | GEN*ED REQ'MT | COURSE* TYPE | TITLE                        | CRS.        |
|-------------------------|---------------|--------------|------------------------------|-------------|
| EN102                   | YES           |              | COLLEGE COMPOSITION 2        | 3.0         |
| CE112 & CE112L          |               |              | GENERAL CHEMISTRY II & LAB   | 4.0         |
| MA126                   |               |              | CALCULUS W/ANAL. GEOMETRY II | 4.0         |
| HSxxx                   | YES           | HS.SV        | GEN*ED HIST. PERSPECTIVES    | 3.0         |
| <b>SEMESTER CREDITS</b> |               |              |                              | <b>14.0</b> |

#### SEMESTER 3

| COURSE CODE             | GEN*ED REQ'MT | COURSE* TYPE   | TITLE                                      | CRS.        |
|-------------------------|---------------|----------------|--|-------------|
| CE241 & CE241L          |               |                | ORGANIC CHEMISTRY I & LAB                  | 5.0         |
| PH211 & PH211L          |               |                | GEN. PHYS. W/CALCULUS I & LAB              | 5.0         |
| MA225                   |               |                | CALC. W/ANAL. GEOMETRY III                 | 4.0         |
| xxx                     | YES           | HS.SV or SS.SV | GEN*ED HISTORICAL PERSP. Or SOCIAL SCIENCE | 3.0         |
| <b>SEMESTER CREDITS</b> |               |                |  | <b>17.0</b> |

#### SEMESTER 4

| COURSE CODE             | GEN*ED REQ'MT | COURSE* TYPE | TITLE                          | CRS.        |
|-------------------------|---------------|--------------|--------------------------------|-------------|
| SS*xxx                  | YES           | SS.SV        | GEN*ED SOC. SCI.               | 3.0         |
| CE221 & CE221L          |               |              | QUANTITATIVE ANALYSIS & LAB    | 4.0         |
| PH212 & PH212L          |               |              | GEN. PHYS. W/CALCULUS II & LAB | 5.0         |
| CE242 & CE242L          |               |              | ORGANIC CHEMISTRY II & LAB     | 5.0         |
| <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.        |
|-------------------------|---------------|--------------|-----------------------------|-------------|
| ENxxx                   | YES           | LIT          | GEN*ED LITERATURE           | 3.0         |
| MA211                   |               |              | DIFFERENTIAL EQUATIONS      | 3.0         |
| CE372 & CE372L          |               |              | SPECTR. & QUANTUM CHEMISTRY | 4.0         |
| PH301                   |               |              | MODERN PHYSICS*             | 3.0         |
| AR, MU, TH or DA        | YES           |              | GEN*ED AESTHETICS           | 3.0         |
| <b>SEMESTER CREDITS</b> |               |              |                             | <b>16.0</b> |

#### SEMESTER 6

| COURSE CODE             | GEN*ED REQ'MT | COURSE* TYPE | TITLE                       | CRS.        |
|-------------------------|---------------|--------------|-----------------------------|-------------|
| CE371 & CE371L          |               |              | BIOPHYSICAL CHEMISTRY & LAB | 4.0         |
| PH302                   |               |              | APPLIED PHYSICS*            | 3.0         |
| CE311                   |               |              | CHEMICAL LITERATURE         | 1.0         |
| xxx                     | YES           | CD           | GEN*ED CULTURAL DIVERSITY   | 3.0         |
| xxx                     |               |              | FREE ELECTIVES              | 3.0         |
| <b>SEMESTER CREDITS</b> |               |              |                             | <b>14.0</b> |

#### SEMESTER 7

| COURSE CODE             | GEN*ED REQ'MT | COURSE* TYPE | TITLE                     | CRS.        |
|-------------------------|---------------|--------------|---------------------------|-------------|
| CE410                   | YES           | RD           | SEMINAR                   | 1.0         |
| xxx                     | YES           | GU           | GEN*ED GLOBAL UNDERSTAND. | 3.0         |
| xxx                     |               |              | FREE ELECTIVES            | 3.0         |
| xxx                     |               |              | FREE ELECTIVES            | 3.0         |
| xxx                     |               |              | FREE ELECTIVES            | 3.0         |
| xxx                     |               |              | FREE ELECTIVES            | 3.0         |
| <b>SEMESTER CREDITS</b> |               |              |                           | <b>16.0</b> |

#### SEMESTER 8

| COURSE CODE             | GEN*ED REQ'MT | COURSE* TYPE | TITLE  | CRS.        |
|-------------------------|---------------|--------------|--|-------------|
| CE322 & CE322L          |               |              | INSTRUMENTAL ANALYSIS & LAB                      | 4.0         |
| CE475                   |               |              | COMPUTATIONAL CHEMISTRY AND MOLECULAR MODELING** | 3.0         |
| xxx                     | YES           | ISP          | GEN*ED INTERDISC. PERSPECT.                      | 3.0         |
| xxx                     |               |              | FREE ELECTIVES                                   | 3.0         |
| xxx                     |               |              | FREE ELECTIVES                                   | 3.0         |
| xxx                     |               |              | FREE ELECTIVES                                   | 1.0         |
| <b>SEMESTER CREDITS</b> |               |              |  | <b>17.0</b> |

\*Offered in alternative years - may be substituted for free electives in semesters 7 and 8

\*\*If offered in the fall semester, substitute for free elective in semester 7