NAME:

BIOCOMPUTIONAL ENGINEERING

| UID: | _ A.A A.S.E. | Pos ⁺ | t-Bac |
|--------------------------------------|-------------------|------------------|-------|
| GENERAL EDUCATI | ON REQUIREMEN | NTS | |
| Fundamental Studies | | | |
| Academic Writing (AW) | ENGL 101 | | 3 |
| Professional Writing (PW) @USG | ENGL 393 | | 3 |
| Oral Communication (OC) | | | 3 |
| Distributive Studies | | | |
| History/Social Sciences (HS*) | | | 3 |
| History/Social Sciences (HS*) | | | 3 |
| Humanities (HU*) | | | 3 |
| Humanities (HU*) | | | 3 |
| Scholarship in Practice (SP*) out of | mj | | 3 |
| I-Series | | | |
| I-Series (IS*) | | | 0/3 |
| I-Series (IS*) | | | 0/3 |
| Diversity | | | |
| Understanding Plural Societies (UP | *) | | 0/3 |
| Understanding Plural Societies (UP | *) OR | | 0/3 |
| Cultural Competency (CC*) | | | 0/5 |
| | QUIREMENTS | | |
| Basic Sciences | | | |
| CHEM 135- Chem Engr or CHEM 13 | 1+134 - Gen Chem | +Princ | 3/3&1 |
| CHEM136 - Chemistry Lab for Engr | | | 1 |
| CHEM 231 and 232 - Organic Chem | istry I & Lab | | |
| PHYS 161 - General Physics I (NS) | | | 3 |
| PHYS 260 and PHYS 261 - Gen Physi | ics II & Lab (NL) | | 3&1 |
| MATH 140 - Calculus I (MA/AR) | | | 4 |
| MATH 141 - Calculus II | | | 4 |
| MATH 241 - Calculus III | | | 4 |
| MATH 246 - Differential Equations | | | 3 |
| Engineering Sciences | | | |
| ENES 100 - Intro to Eng Design (SP) | | | 3 |
| BIOE 120 - Biology for Engr or BSCI | | Cell Bio | 3 |
| BIOE 241 - Biocomputational Metho | ods or equivalent | | 3 |

* May satisfy more than one requirement. See www.gened.umd.edu

**See Biocomputational Engineering Advisor for electives: biocomp.umd.edu

| For Degree Clearance Only | | |
|---------------------------|--------------|--|
| Degree: B.S. BCE | Advisor: | |
| Date: | Credits/GPA: | |

| 1 3 3 3 |
|------------------|
| 3 |
| |
| 3 |
| |
| 3 |
| 3 |
| 3 |
| 3 |
| 3 |
| 3 |
| 2 |
| 3 |
| 3 |
| 3 |
| 3 |
| 3 |
| |
| |
| 3 |
| 3 |
| 3 |
| 3 |
| |

Requirements for Graduation: Final 30 credits must be earned at UMD 15 of the final 30 credits must be earned at the 300-400 level 12 upper level major credits must be earned at UMD A minimum 2.00 cumulative UM GPA, and satisfactory completion of all degree requirements, is required for graduation Students matriculating in Fall 2012 or after must have a 2.0 minimum GPA for all degree requirements, minor requirements, and undergraduate certificate requirements (Major courses are defined as: departmental courses, basic sciences, engineering sciences, specified degree tracks, technical requirements/ technical electives and ENGL 393)

A minimum of 120 credits is required to earn the degree

Biocomputational Engineering Four Year Academic Plan

UID:_____

| Year 1 | Fall | | |
|----------------------|---------------------------|--------|-------|
| https://lep.umd.edu/ | Course | Credit | Grade |
| | MATH140 | 4 | |
| | CHEM135 | 3 | |
| | CHEM136 | 1 | |
| | ENGL101 | 3 | |
| | General Ed Requirement I | 3 | |
| | General Ed Requirement II | 3 | |
| | Total | 17 | |

| Spring | | |
|----------------------------|--------|-------|
| Course | Credit | Grade |
| ENES100 | 3 | |
| BIOE120 | 3 | |
| MATH141 | 4 | |
| PHYS161 | 3 | |
| General Ed Requirement III | 3 | |
| | | |
| Total | 16 | |

| Year 2 | Fall | | |
|--------|---------------------------|--------|-------|
| | Course | Credit | Grade |
| | CHEM231 | 3 | |
| | CHEM232 | 1 | |
| | MATH241 | 4 | |
| | BIOE241 | 3 | |
| | General Ed Requirement IV | 3 | |
| | General Ed Requirement V | 3 | |
| | Total | 17 | |

| Spring | | |
|-----------------------------|--------|-------|
| Course | Credit | Grade |
| PHYS260 | 3 | |
| PHYS261 | 1 | |
| MATH246 | 3 | |
| General Ed Requirement VI | 3 | |
| General Ed Requirement VII | 3 | |
| General Ed Requirement VIII | 3 | |
| Total | 16 | |

| Year 3 | Fall @USG | | |
|--------|-----------|--------|-------|
| | Course | Credit | Grade |
| | ENBC301 | 1 | |
| | ENBC311 | 3 | |
| | ENBC331 | 3 | |
| | ENBC332 | 3 | |
| | ENBC341 | 3 | |
| | ENBC351 | 3 | |
| | Total | 16 | |

| | Spring @USG | | |
|-----------------|-------------|-------|--|
| Course | Credit | Grade | |
| ENBC312 | 3 | | |
| ENBC322 | 3 | | |
| ENBC342 | 3 | | |
| ENBC352 | 2 | | |
| ENBC Elective I | 3 | | |
| | | | |
| Total | 14 | | |

| Year 4 | Fall @USG | | |
|--------|------------------|--------|-------|
| | Course | Credit | Grade |
| | ENBC321 | 3 | |
| | ENBC353 | 3 | |
| | ENBC431 | 3 | |
| | ENGL393 | 3 | |
| | ENBC Elective II | 3 | |
| | | | |
| | | | |
| | Total | 15 | |

| | Spring @ USG | | |
|-------------------|--------------|--|--|
| Course | Credit Grade | | |
| ENBC425 | 3 | | |
| ENBC441 | 3 | | |
| ENBC491 | 3 | | |
| ENBC Elective III | 3 | | |
| ENBC Elective IV | 3 | | |
| | | | |
| | | | |
| Total | 15 | | |