

Name: _____

UID#: _____

CHEMICAL & BIOMOLECULAR ENGINEERING

CORE GENERAL EDUCATION PROGRAM

Fundamental Studies (6 credits)

Academic Writing - ENGL 101	3
Technical Writing - ENGL 393	3

Distributive Studies (18 credits) Lower level courses

Humanities and the Arts (9 credits)

Literature (HL)	3
Arts (HA)	3
Other Humanities (HA, HL, HO, IE*)	3

Social and Behavioral Sciences (9 credits)

Social/Political History (SH)	3
Behavior/Social Science (SB)	3
Behavior/Social Science (SB, IE*)	3

*Only one Interdisciplinary & Emerging Issues (IE) course can be taken in place of a third humanities or behavior/social science course.

Advanced Studies (6 credits) Upper level courses

Must be courses outside of your major department or may include an approved Capstone course in your major

BCHM 461 – Biochem I or BCHM 463	0
CHBE 446 – Process Eng Econ & Design II*	0

*CORE Approved Capstone Course.

Diversity (3 credits)

One course from approved list (D)	0/3
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MAJOR REQUIREMENTS

Basic Sciences

CHEM 135 - Chem for Eng	3
CHEM 136 - Chemistry Lab for Eng	1
CHEM 231 & 232 - Organic Chemistry I & Lab	4
CHEM 241 & 242 - Organic Chemistry II & Lab	4
PHYS 161 - General Physics I	3
PHYS 260 & 261 - Gen Physics II & Lab	4
PHYS 270 & 271 - Gen Physics III & Lab	4
MATH 140 - Calculus I	4
MATH 141 - Calculus II	4
MATH 241 - Calculus III	4
MATH 246 - Differential Equations	3

Engineering Sciences

ENES 100 - Intro to Eng Design	3
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Major Requirements

BIOE 120 - Biology for Engineers	3
CHBE 101 – Intro to Chem & Biomolec Eng	3
CHBE 250 - Comp Methods in Chem & Biomolec Eng	3
CHBE 301 – Chem & Biomolec Thermodynamics I	3
CHBE 302 - Chem & Biomolec Thermodynamics II	3
CHBE 333 – Comm Skills for Eng	1
CHBE 410 – Statistics & Experimental Design	3
CHBE 422 - Chem & Biomolec Transport Phenomena I	3
CHBE 424 - Chem & Biomolec Transport Phenomena II	3
CHBE 426 - Chem & Biomolec Separation Processes	3
CHBE 437 - Chem & Biomolec Eng Lab	3
CHBE 440 - Chem Kinetics & Reactor Design	3
CHBE 442 - Chem Eng Systems Analysis	3
CHBE 444 - Process Eng Econ & Design I	3
CHBE 446 - Process Eng Econ & Design II	3
ENMA 300 - Intro to Mat & Apps or ENMA425 or BIOE453	3
CHBE 4XX - Elective	3
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For technical elective guidelines visit

www.chbe.umd.edu/undergrad/tech-electives.html

Technical Requirements

BCHM 461/462 or BCHM 463	3/3 or 3
CHEM 272 – Gen Bioanalytical Chem Lab	2

NOTES

All engineering and technical courses must be completed with a grade of 2.0 or better.

All degree courses must be taken for a regular grade.

A minimum of **120 credits** and completion of all degree requirements is required for graduation.

The responsibility for meeting all graduation requirements rests with the student.

Track your degree progress using Degree Navigator

www.testudo.umd.edu/dnentry.html