



Engineering Transfer A.S. & Biomedical Engineering B.S. (130 Credits)

Sample Eight-Semester Plan (Updated 11/18/19)

Students are expected to review and track their own progress towards completion of degree requirements. This is provided as a sample guideline—it does NOT reduce the importance of careful and regular discussions between a student and their academic advisor.

Important Reminders:

1. Students receive their Engineering Transfer A.S. degree from Bristol Community College with the completion of year 2.
2. Biomedical Engineering students must complete a minimum of **130** credits. This sample shows 138 credits.
3. Students must maintain a cumulative GPA of at least a **2.0**.

Year 1

BCC Fall Semester		
Course		Credits
CSS 101	College Success Seminar	1
CHM 113	Fundamentals of Chemistry I	4
ENG 101	Composition I: College Writing	3
MTH 214	Calculus I	4
CAD101	Computer Aided Drafting	3
SOC101	Intro to Sociology	3
Total		18

BCC Spring Semester		
Course		Credits
ENG 102	Composition II: Writing about Literature	3
MTH 215	Calculus II	4
PHY 211	General Physics I	4
CHM 114	Fundamentals of Chemistry II	4
EGR 204	Engineering Applications of MATLAB	1
PHL101	Philosophy	3
Total		19

Year 2

BCC Fall Semester		
Course		Credits
MTH 253	Calculus III	4
PHY 212	General Physics II	4
HST 113 or HST 114	US History to 1877 US History from 1877	3
EGR 171	Fluid Systems	4
CORE	Expressive Arts/Literature Elective*	3
Total		18

BCC Spring Semester		
Course		Credits
ENG 215	Technical Writing	3
MTH 254	Ordinary Differential Equations	3
EGR131	Introduction to Electrical Circuits	4
EGR172	Material Science	4
BIO 126	Introduction to Biotechnology	3
Total		17

Year 3

Regis Fall Semester		
Course		Credits
BI 209	Microbiology/Lab	4
CH 305	Organic Chemistry I/Lab	4
BE 330	Transport and Fluids	3
BE 301	Engineering in the Clinic	1
BE 431	Biomedical Engineering Lab I	2
CORE	Religious Studies*	3
Total		17

Regis Spring Semester		
Course		Credits
BE 310	Biomechanics	3
MI 101	Exploring Medical Imaging	1
BI 210	Cell Biology/Lab	4
BE 302	Engineering Standards and Regulation	1
BE 250	Quantitative Physiology	3
BE 432	Biomedical Engineering Lab II	2
CORE	Expressive Arts/Literature Elective*	3
Total		17

Year 4

Regis Fall Semester		
Course		Credits
BE 420	Biomaterials	3
BE 481	BME Design I	3
BE 421	Measure & Inst/Lab	4
BI 401	Seminar: Ethical Issues in Biology (CORE)	3
ID 413	Internship**	3
Total		16

Regis Spring Semester		
Course		Credits
BE 440	Biomolecular Dynamics	3
BE 482	BME Design II	3
BE 450	Seminar: Innovate and Translate BME	3
BE 461	Tissue Engineering/Lab	4
CORE	Social Science I*	3
Total		16

Appendix A

* Asterisked CORE may be taken in any order; FYS-Linked Course satisfies a CORE requirement.

** The Internship is recommended to be completed during the summer between years 3 and 4.

*** All students are required to complete an e-portfolio as part of graduation requirements—this is completed through the major's capstone course



Liberal Arts and Science (Math and Science) A.S. & Biomedical Engineering B.S. (130 Credits)

Sample Eight-Semester Plan (Updated 11/18/19)

Students are expected to review and track their own progress towards completion of degree requirements. This is provided as a sample guideline—it does NOT reduce the importance of careful and regular discussions between a student and their academic advisor.

Important Reminders:

1. Students receive their Liberal Arts and Science A.S. degree from Bristol Community College with the completion of year 2.
2. Biomedical Engineering students must complete a minimum of **130** credits. This sample shows 141 credits.
3. Students must maintain a cumulative GPA of at least a **2.0**.

Year 1

BCC Fall Semester		
Course		Credits
CSS 101	College Success Seminar	1
CHM 113	Fundamentals of Chemistry I	4
ENG 101	Composition I: College Writing	3
MTH 214	Calculus I	4
CAD101	Computer Aided Drafting	3
SOC101	Intro to Sociology	3
Total		18

BCC Spring Semester		
Course		Credits
ENG 102	Composition II: Writing about Literature	3
MTH 215	Calculus II	4
PHL101	Intro to Philosophy	3
CHM 114	Fundamentals of Chemistry II	4
EGR 204	Engineering Applications of MATLAB	1
COM101	Public Speaking	3
Total		18

Year 2

BCC Fall Semester		
Course		Credits
MTH 253	Calculus III	4
PHY 211	General Physics I	4
HST 113	US History to 1877	3
EGR 131	Introduction to Electrical Circuits	4
MAN101	Principles of Management	3
Total		18

BCC Spring Semester		
Course		Credits
HST114	US History from 1877	3
PHY 212	General Physics II	4
MTH 254	Ordinary Differential Equations	4
SCI110	Science vs. Pseudoscience	3
GVT111	US Government	3
Total		17

Year 3

Regis Fall Semester		
Course		Credits
BI 209	Microbiology/Lab	4
CH 305	Organic Chemistry I/Lab	4
BE 330	Transport and Fluids	3
BE 301	Engineering in the Clinic	1
BE 431	Biomedical Engineering Lab I	2
CORE	Religious Studies*	3
Total		17

Regis Spring Semester		
Course		Credits
BE 310	Biomechanics	3
CH306	Organic Chemistry II/Lab	4
MI 101	Exploring Medical Imaging	1
BI 210	Cell Biology/Lab	4
BE 302	Engineering Standards and Regulation	1
BE 250	Quantitative Physiology	3
BE 432	Biomedical Engineering Lab II	2
Total		18

Year 4

Regis Fall Semester		
Course		Credits
BE 420	Biomaterials	3
BE 481	BME Design I	3
BE 421	Measure & Inst/Lab	4
BI 401	Seminar: Ethical Issues in Biology (CORE)	3
ID 413	Internship**	3

Regis Spring Semester		
Course		Credits
BE 440	Biomolecular Dynamics	3
BE 482	BME Design II	3
BE 450	Seminar: Innovate and Translate BME	3
BE 461	Tissue Engineering/Lab	4
CORE	Literature*	3
CORE	Expressive Arts*	3

Appendix A

Total	16	Total	19
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** Asterisked CORE may be taken in any order*

*** The Internship is recommended to be completed during the summer between years 3 and 4.*

**** All students are required to complete an e-portfolio as part of graduation requirements—this is completed through the major's capstone course*