Biomedical Engineering (BS)

Degree Requirements (122 semester credit hours)

Four-Year Degree Plan (Example)

This is an example only. Please see your advisor to develop your individual plan.

**Fall Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>SCH</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>RHET 1302</td>
<td>Rhetoric</td>
<td>3</td>
<td>060 Core Course</td>
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<tr>
<td>BMEN 1100</td>
<td>Introduction to Bioengineering</td>
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<td>BMEN 1208</td>
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<td>Introduction to Bioengineering</td>
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<td>R</td>
<td>MATH 2417 Calculus</td>
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<td>MATH 2419</td>
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<td>CHEM 1301 General Chemistry for Engineers</td>
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<td>CHEM 2324</td>
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<td>S</td>
<td>CS 1324 Introduction to Programming for Biomedical Engineers</td>
<td>3</td>
<td>PHYS 2325</td>
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<td>H</td>
<td>ENCS 1100 Introduction to Engineering and Computer Science</td>
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<td>PHYS 2125</td>
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<td>UNIV 1010 Freshman Seminar</td>
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<td>Physics Laboratory</td>
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**Fall Semester**

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<td>Linear Algebra for Engineers</td>
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<td>BIOL 2311</td>
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<td>GOVT 2305</td>
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**Spring Semester**

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<tr>
<td>PHYS 2126</td>
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<td>BMEN 2320</td>
<td>Statics</td>
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</tbody>
</table>

https://catalog.utdallas.edu/2018-undergraduate/programs/ecs/biomedical-engineering/four-year
050 Core Course

GOVT 2306 State and Local Government

EE 3302 Signals and Systems

EE 3102 Signals and Systems Laboratory

BMEN 3320 Electrical and Electronic Circuits in Biomedical Engineering

BMEN 3120 Biomedical Circuits and Instrumentation Laboratory

BMEN 4310 Feedback Systems in Biomedical Engineering

BMEN 4110 Biomedical Feedback Systems Laboratory

Fall Semester

BMEN 4320 Intermediate Electrical Systems

BMEN 4388 Senior Design Project I

BMEN 4360 Biomaterials and Medical Devices

ECS 3361 Social Issues and Ethics in Computer Science and Engineering

ECS 3390 Professional and Technical Communication

BMEN 3315 Thermodynamics and Physical Chemistry in Biomedical Engineering

or BMEN 3360 Thermodynamics

BMEN 3330 Engineering Physiology of the Human Body

BMEN 3130 Engineering Physiology Laboratory

BMEN 3350 Biomedical Component and System Design

BMEN 3150 Biomedical Engineering Laboratory

BMEN 4310 Feedback Systems in Biomedical Engineering

BMEN 4320 Intermediate Electrical Systems

BMEN 4388 Senior Design Project I

BMEN 4360 Biomaterials and Medical Devices

ECS 3361 Social Issues and Ethics in Computer Science and Engineering

BMEN 3399 Introductory Biomechanics

BMEN 4389 Senior Design Project II

BMEN Prescribed Elective

BMEN Prescribed Elective

UNIV 2020 Core Curriculum Assessment

18 SCH

Spring Semester

BMEN 3399 Introductory Biomechanics

BMEN 4389 Senior Design Project II

BMEN Prescribed Elective

BMEN Prescribed Elective

UNIV 2020 Core Curriculum Assessment

14 SCH

NOTES:

1. Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2. Curriculum Requirements can be fulfilled by other approved courses. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.

3. Semester credit hours fulfill the communication component of the Core Curriculum.

4. Three semester credit hours of Calculus are counted under Mathematics Core, and five semester credit hours of Calculus are counted as Component Area Option Core.

5. Six semester credit hours of Physics are counted under Science core, and one semester credit hour of Physics (PHYS 2125) is counted as Component Area Option Core.

6. Students must pass each of the major requirement courses listed in this degree plan and each of their prerequisites, with a grade of C- or better.

7. Transfer students with sufficient background may petition to substitute upper-division semester credit hours in the major for this class.

8. Semester credit hours contribute to the Social and Behavioral Sciences component of the Core
Curriculum.

Depending on placement, student may need to complete CS 1336/1136 Programming Fundamentals prior to enrolling in CS 1324 Introduction to Programming for Biomedical Engineers.

Earliest semester course can be taken due to pre- or co-requisite course requirements.

Must complete by 3rd semester of enrollment.

Students wishing to fast track into the graduate program in Accounting may take up to six (6) semester credit hours of graduate ACCT electives - see the Undergraduate Accounting Program Director or the Associate Area Coordinator, for specific fast-track courses. Cumulative GPA of 3.4 minimum required for Fast-Track Program. See Academic Advisor for other requirements.

Be sure to check prerequisites of Level 2 courses

120 semester credit hours required for graduation

This plan is a resource tool only; it does not replace your degree plan or academic advising.

Updated: 2018-05-31 11:09:02