



Physics

Program: Life Sciences

Program Code:

LF_LFPH

Academic Area:

Science, Technology, Engineering and Mathematics

Type:

Associate in Science

Campus:

Fall River

CIP Code:

40.0801

Program Goals Statement

This program is designed for students who plan to transfer to a four-year institution and major in Physics or a related field. The goal is to provide students with a solid foundation in the knowledge and skills that they will need to succeed at a four-year institution.

Program Information

- This program is designed to prepare students who plan to transfer to a four-year institution and major in Physics or a related field.
- Students will be introduced to each of the four major branches of physics: mechanics, electromagnetism, thermodynamics, and modern physics. This gives students a strong foundation on which to build the last two years of a Physics major.
- All General Education requirements will be met.

After Bristol

- Transfer to a four-year institution and take the last two years of a major related to Physics; these include Physics, Astrophysics, Applied Physics, Mathematics, or Engineering, among others.
- Consider utilizing the MassTransfer program to make a seamless transfer to a state university.
- Visit bristolcc.edu/transfer for more information on transferring.
- Physics majors can go on to teach or research within the field of physics, and can also work as a data analyst, software developer, materials scientist, patent agent, health physicist, science writer, and more. Some physics majors even end up working in finance or government.

Degree Requirements



General Courses

| Course # | Title | Credits |
|----------|--|---------|
| COM 104 | Fundamentals of Public Speaking | 3 |
| CSS 101 | College Success Seminar | 1 |
| ENG 101 | Composition I: College Writing | 3 |
| ENG 102 | Composition II: Writing about Literature | 3 |
| | HST 113 or HST 114 | 3 |
| SCI 117 | History and Philosophy of Science | 3 |

Elective Courses

| Course # | Title | Credits |
|----------|-------------------------------|---------|
| | Social/Ethical Elective | 3 |
| | Information Literacy Elective | 3-4 |

Program Courses

| Course # | Title | Credits |
|----------|-------------------------------------|---------|
| MTH 214 | Calculus I | 4 |
| MTH 215 | Calculus II | 4 |
| MTH 253 | Calculus III | 4 |
| MTH 254 | Ordinary Differential Equations | 3 |
| | Technical or General Physics I & II | 8 |

Program Electives

Choose four of the following:

| Course # | Title | Credits |
|----------|---------------------------------------|---------|
| AST 211 | Introduction to Astrophysics | 4 |
| AST 212 | Introduction to Astrophysics II | 4 |
| BIO 121 | Fundamentals of Biological Science I | 4 |
| BIO 122 | Fundamentals of Biological Science II | 4 |
| CHM 113 | Fundamentals of Chemistry I | 4 |
| CHM 114 | Fundamentals of Chemistry II | 4 |
| | EGR 231 and EGR 233 | 4 |
| | EGR 232 and EGR 234 | 4 |
| | EGR 251 and EGR 253 | 4 |
| EGR 255 | Thermodynamics | 3 |
| PHY 120 | Introduction to Modern Physics | 3 |



Recommended Course Sequence - Semester 1

| Course # | Title | Credits |
|----------|-----------------------------------|---------|
| COM 104 | Fundamentals of Public Speaking | 3 |
| CSS 101 | College Success Seminar | 1 |
| ENG 101 | Composition I: College Writing | 3 |
| MTH 214 | Calculus I | 4 |
| SCI 117 | History and Philosophy of Science | 3 |

Recommended Course Sequence - Semester 2

| Course # | Title | Credits |
|----------|--|---------|
| ENG 102 | Composition II: Writing about Literature | 3 |
| | HST 113 or HST 114 | 3 |
| MTH 215 | Calculus II | 4 |
| | PHY 101 or PHY 211 | 4 |

Recommended Course Sequence - Semester 3

| Course # | Title | Credits |
|----------|-------------------------------|---------|
| MTH 253 | Calculus III | 4 |
| | PHY 102 or PHY 212 | 4 |
| | Program Elective | 3 |
| | Information Literacy Elective | 3-4 |

Recommended Course Sequence - Semester 4

| Course # | Title | Credits |
|----------|---------------------------------|--------------|
| MTH 254 | Ordinary Differential Equations | 3 |
| | Social/Ethical Elective | 3 |
| | Program Elective | 3 |
| | Program Elective | 3 |
| | Program Elective | 3 |
| | Total credits: | 60-62 |