

ACADEMIC MAP

PHYSICS

Bachelor of Science



START HERE

1

| SEMESTER 1 - FALL | CREDITS | COMPLETED |
|--|---------|-----------|
| UNIV 1101 UNIVERSITY SEMINAR I | 1 | ✓ |
| MATH 2413 CALCULUS I | 4 | |
| ENGL 1301 WRITING AND RHETORIC I | 3 | |
| HIST 1301 U.S. HISTORY TO 1865 | 3 | |
| COSC 1435 INTRODUCTION TO PROBLEM SOLVING WITH COMPUTERS I | 4 | |

TOTAL CREDITS: 15

2

| SEMESTER 2 - SPRING | CREDITS | COMPLETED |
|-----------------------------------|---------|-----------|
| UNIV 1102 UNIVERSITY SEMINAR II | 1 | |
| MATH 2414 CALCULUS II | 4 | |
| ENGL 1302 WRITING AND RHETORIC II | 3 | |
| HIST 1302 U.S. HISTORY SINCE 1865 | 3 | |
| PHYS 2425 UNIVERSITY PHYSICS I | 4 | |

TOTAL CREDITS: 15

YEAR 1

3

| SEMESTER 3 - FALL | CREDITS | COMPLETED |
|---|---------|-----------|
| PHYS 2426 UNIVERSITY PHYSICS II | 4 | |
| MATH 2415 CALCULUS III | 4 | |
| LANGUAGE, PHILOSOPHY & CULTURE CORE REQUIREMENT | 3 | |
| CREATIVE ARTS CORE REQUIREMENT | 3 | |
| POLS 2305 U.S. GOVERNMENT AND POLITICS | 3 | |

TOTAL CREDITS: 17

4

| SEMESTER 4 - SPRING | CREDITS | COMPLETED |
|---|---------|-----------|
| PHYS 3334 MODERN PHYSICS I | 3 | |
| MATH 3315 DIFFERENTIAL EQUATIONS | 3 | |
| COSC 1436 INTRODUCTION TO PROBLEM SOLVING WITH COMPUTERS II | 4 | |
| SOCIAL AND BEHAVIORAL SCIENCES CORE REQUIREMENT | 3 | |
| POLS 2306 STATE AND LOCAL GOVERNMENT | 3 | |

TOTAL CREDITS: 16

YEAR 2

5

| SEMESTER 5 - FALL | CREDITS | COMPLETED |
|----------------------------|---------|-----------|
| PHYS 3331 MECHANICS I | 3 | |
| PHYS 3332 ELECTROMAGNETISM | 3 | |
| PHYS 3490 SELECTED TOPICS | 3 | |
| MATH 3311 LINEAR ALGEBRA | 3 | |
| ELECTIVE | 3 | |

TOTAL CREDITS: 15

6

| SEMESTER 6 - SPRING | CREDITS | COMPLETED |
|---|---------|-----------|
| PHYS 4330 MATHEMATICAL METHODS FOR PHYSICISTS | 3 | |
| PHYS 4340 ADVANCED PHYSICS LAB | 3 | |
| PHYS 3490 SELECTED TOPICS | 3 | |
| SUPPORT FIELD | 3 | |
| ELECTIVE | 3 | |

TOTAL CREDITS: 15

YEAR 3

7

| SEMESTER 7 - FALL | CREDITS | COMPLETED |
|------------------------------------|---------|-----------|
| PHYS 4335 QUANTUM PHYSICS | 3 | |
| PHYS 4161 PHYSICS RESEARCH PROJECT | 1 | |
| PHYS 3333 THERMODYNAMICS | 3 | |
| SUPPORT FIELD | 3 | |
| ELECTIVE | 3 | |
| UL SUPPORT ELECTIVE | 3 | |

TOTAL CREDITS: 16

8

| SEMESTER 8 - SPRING | CREDITS | COMPLETED |
|------------------------------------|---------|-----------|
| PHYS 4337 NUCLEAR PHYSICS | 3 | |
| PHYS 4162 PHYSICS RESEARCH SEMINAR | 1 | |
| UL SUPPORT FIELD | 3 | |
| UL SUPPORT FIELD | 3 | |
| ELECTIVE | 3 | |

TOTAL CREDITS: 13

YEAR 4

This is not an official degree plan. It is a guideline for planning your courses. To access a copy of this academic map please visit tamucc.edu/academics/planning/academic-advising/

122 CREDITS | FINISHED!



CAREER MAP

PHYSICS

Bachelor of Science



The Joint B.S. Physics degree is a Bachelor of Science degree with a Physics major, provided through the joint efforts of physics faculty both here at TAMUCC and at other schools in the Texas Physics Consortium (TPC). Interested students are encouraged to visit the TPC website at <http://www.tarleton.edu/tpc/>. Upper-level physics courses can originate at any of the TPC schools, and students at any of the other TPC schools can take them via distance education.

CONTACT INFORMATION

Career Counselor:

Career and Professional Development Center
UC 304 | 361.825.2628
career.center@tamucc.edu

Internship Coordinator:

Barbara Szczerbinska
CI 370 | 361.825.3916
barbara.szczerbinska@tamucc.edu

Department Contact:

Department of Physical and Environmental Sciences
NRC 1111 | 361.825.6020
jeffery.spirko@tamucc.edu

ADDITIONAL SOURCES OF INFORMATION

1. American Institute of Physics
2. American Association of Physics Teachers
3. Society of Exploration Geophysicists

STUDENT ORGANIZATIONS

- Society of Exploration of Geophysics Student Chapter at TAMU-CC
- Student Council of Math and Science Teachers
- Math Club
- SACNAS Chapter at Texas A&M University - Corpus Christi

CAREER OPTIONS

- | | |
|-------------------------|-------------------|
| • Physics Teacher | • Data Analyst |
| • Accelerator Operator | • Design Engineer |
| • Applications Engineer | • IT Consultant |
| • Lab Technician | • Laser Engineer |
| • Biophysicist | |

SKILLS/ATTRIBUTES

- Critical Thinking/Problem Solving
- Teamwork/Collaboration
- Professionalism/Work Ethic
- Oral/Written Communication
- Leadership
- Digital Technology