



Chemistry/Physics Associate of Science

Program Summary

Associate of Science

The physical sciences challenge critical thinking, teach an understanding of the earth's origin, natural resources, and sustainability. Whether you are interested in astrology, paleontology, geology, or ecology, this program has a variety of courses to get you started toward a four-year degree in the sciences.

| AS 3042 Chemistry/Physics Associate of Science | | 60 Hours | TSI Required |
|--|--|--------------|--------------|
| Technical Core Certificate (44 hours) | | | |
| Course | Title | Credit hours | |
| BCIS 1305 | Business Computer Applications | 3 | |
| ENGL 1301 | Composition I | 3 | |
| ENGL 1302 | Composition II | 3 | |
| GOVT 2305 | Federal Government | 3 | |
| GOVT 2306 | Texas Government | 3 | |
| HIST 1301 | United States History I | 3 | |
| HIST 1302 | United States History II | 3 | |
| SPCH 1315 | Public Speaking | 3 | |
| | Creative Arts* | 3 | |
| | Language, Philosophy and Culture* | 3 | |
| | Life and Physical Science Chemistry Pathway: CHEM 1411/Physics Pathway: PHSY 1401 | 4 | |
| | Life and Physical Science Chemistry Pathway: CHEM 1412/Physics Pathway: PHSY 1402 | 4 | |
| | Mathematics* | 3 | |
| | Social and Behavioral Science* | 3 | |

| Chemistry/Physics Elective Courses (16 Hours) | | |
|---|----------------------------|--------------|
| Course | Title | Credit Hours |
| CHEM 1411 | General Chemistry I | 4 |
| CHEM 1412 | General Chemistry II | 4 |
| CHEM 2423 | Organic Chemistry I | 4 |
| COSC 1436 | Programming Fundamentals I | 4 |
| MATH 1316 | Plane Trigonometry | 3 |
| MATH 2412 | Pre-Calculus Math | 4 |
| MATH 2413 | Calculus I | 4 |
| MATH 2414 | Calculus II | 4 |
| PHYS 2425 | University Physics I | 4 |
| PHYS 2426 | University Physics II | 4 |

*See Core Curriculum for course options



Science, Technology, Engineering & Mathematics



Chemistry/Physics
Associate of Science

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Year 1: Semester 1

| Course | Semester Credit Hours |
|-----------------------------------|-----------------------|
| ENGL 1301 Composition I | 3 |
| HIST 1301 United States History I | 3 |
| Life and Physical Science** | 4 |
| Mathematics* | 3/4 |
| SPCH 1315 Public Speaking | 3 |
| Total | 16/17 |

Year 1: Semester 2

| Course | Semester Credit Hours |
|--|-----------------------|
| BCIS 1305 Business Computer Applications | 3 |
| ENGL 1302 Composition II | 3 |
| HIST 1302 United States History II | 3 |
| Language, Philosophy and Culture* | 3 |
| Life and Physical Science** | 4 |
| Total | 16 |

Year 2: Semester 1

| Course | Semester Credit Hours |
|--------------------------------------|-----------------------|
| GOVT 2305 Federal Government | 3 |
| Creative Arts* | 3 |
| Chemistry/Physics Pathway Elective** | 3 |
| Chemistry/Physics Pathway Elective** | 3 |
| Chemistry/Physics Pathway Elective** | 3 |
| Total | 15 |

Year 2: Semester 2

| Course | Semester Credit Hours |
|--------------------------------------|-----------------------|
| GOVT 2306 Texas Government | 3 |
| Social and Behavioral Science* | 3 |
| Chemistry/Physics Pathway Elective** | 3 |
| Chemistry/Physics Pathway Elective** | 3 |
| Chemistry/Physics Pathway Elective** | 3 |
| Total | 15 |

*See Core Curriculum for course options

** Dependent on transfer pathway