

PHYSICS



Toward a Bachelor of Science Degree

Minimum 62 hours

Transfer Curriculum • Associate in Science Degree • Minimum 2.0 OGPA • Major Code: DAS

This curriculum is designed for transfer to four year institutions for this major. Consult the website of the four year institution where you plan to transfer, regarding specific course needs, requirements and deadlines.

FIRST YEAR

| Fall Semester | | Credit Hrs |
|---|--------------------------|------------|
| ENG 121 | Rhetoric & Composition I | 3 |
| COM 121 | Principles of Speaking | 3 |
| MATH 161 | Pre-Calculus | 4 |
| SOCIAL AND BEHAVIORAL SCIENCES (See Below) | | 3 |
| CHEM 121 | General Chemistry I | 5 |
| Total Hours | | 18 |

| Spring Semester | | Credit Hrs |
|---|---------------------------|------------|
| ENG 122 | Rhetoric & Composition II | 3 |
| MATH 162 | Calculus I | 5 |
| HUMANITIES AND FINE ARTS (See Below) | | 3 |
| CHEM 122 | General Chemistry II | 5 |
| Total Hours | | 16 |

SECOND YEAR

| Fall Semester | | Credit Hrs |
|---|-------------------|------------|
| PHYS 221 | General Physics I | 5 |
| MATH 221 | Calculus II | 5 |
| HUMANITIES AND FINE ARTS (See Below) | | 3 |
| LIFE SCIENCE (See Below) | | 4 |
| Total Hours | | 17 |

| Spring Semester | | Credit Hrs |
|---|----------------------------------|------------|
| PHYS 222 | General Physics II | 5 |
| PHYS 241 | Statics | 3 |
| SOCIAL AND BEHAVIORAL SCIENCES (See Below) | | 3 |
| MATH 222 | Calculus & Analytic Geometry III | 5 |
| MATH 225 | Differential Equations | 3 |
| Total Hours | | 19 |

The bolded classes on this curriculum guide indicate the minimum a student must complete in order to receive an Associate degree. See advisor for specific transfer information.

NOTE: FOREIGN LANGUAGE is required by some Colleges and Universities.

HUMANITIES AND FINE ARTS: 6 semester hours. At least one course must be taken from each area.

| | | | |
|--------|---|---|--|
| Area 1 | <input type="checkbox"/> ART 121-3 (F2 900) Art Appreciation | <input type="checkbox"/> MUS 121-3 (F1 900) Music Appreciation | <input type="checkbox"/> COM 128-3 (F2 905) Film Appreciation |
| | <input type="checkbox"/> ART 222-3 (F2 901) Prehistory to Medieval Art | <input type="checkbox"/> MUS 126-3 (F1 904) Intro to American Music | <input type="checkbox"/> THTR 121-3 (F1 907) Introduction to Theater |
| | <input type="checkbox"/> ART 223-3 (F2 902) Renaissance to Contemporary Art | | |
| Area 2 | <input type="checkbox"/> ENG 243-3 (H3 902) Introduction to Drama | <input type="checkbox"/> ENG 261-3 (H3 914) American Literature I | <input type="checkbox"/> PHIL 121-3 (H4 900) Intro to Philosophy |
| | <input type="checkbox"/> ENG 245-3 (H3 906) World Literature | <input type="checkbox"/> ENG 262-3 (H3 915) American Literature II | <input type="checkbox"/> PHIL 122-3 (H4 906) Fundamentals of Logic |
| | <input type="checkbox"/> ENG 246-3 (H3 907) Modern Literature | | <input type="checkbox"/> PHIL 221-3 (H4 904) Fundamentals of Ethics |
| | | | <input type="checkbox"/> PHIL 224-3 (H5 904N) Comparative Religions |

SOCIAL & BEHAVIORAL SCIENCES: 6 semester hours. Courses must be taken from two different areas – one course must be selected from Area 1.

| | | | |
|--------|---|---|---|
| Area 1 | <input type="checkbox"/> ECE 141-3 (S6 903) Child Development | <input type="checkbox"/> PSYC 121-3 (S6 900) Intro Psychology | <input type="checkbox"/> SOC 121-3 (S7 900) Intro Sociology |
| | <input type="checkbox"/> HIST 161-3 (S2 923D) Black American History | <input type="checkbox"/> PSYC 221-3 (S6 903) Child Psychology | <input type="checkbox"/> SOC 221-3 (S7 902) The Family in Society |
| Area 2 | <input type="checkbox"/> HIST 121-3 (S2 902) Western Civilization to 1648 | <input type="checkbox"/> HIST 141-3 (S2 901N) Latin American History | <input type="checkbox"/> HIST 241-3 (S2 900N) American History I |
| | <input type="checkbox"/> HIST 122-3 (S2 903) Western Civilization from 1648 | | <input type="checkbox"/> HIST 242-3 (S2 901N) American History II |
| Area 3 | <input type="checkbox"/> ECON 121-3 (S3 901) Macroeconomics | <input type="checkbox"/> GOVT 121-3 (S5 900) American Government | |
| | <input type="checkbox"/> ECON 122-3 (S3 902) Microeconomics | <input type="checkbox"/> GOVT 226-3 (S5 904N) Intro International Relations | |

PHYSICAL AND LIFE SCIENCES: 4 semester hours. At least one course must be taken from each area.

| | | | |
|--------|---|---|---|
| Area 1 | <input type="checkbox"/> BIOL 121-4 (L1 900L) Introductory Biology | <input type="checkbox"/> BOT 121-4 (L1 901L) Plants and Society | <input type="checkbox"/> BIOL 221-4 (L1 900L) General Biology I |
| | <input type="checkbox"/> BIOL 141-4 (L1 905L) Environmental Science | | |

Career Opportunities:

Positions are available in such specialties as Experimental, Electronic, Molecular, Fluids, Nuclear, Solid State, Theoretical, Biophysics, Chemical, Mechanical, Materials Science, Acoustics, Astronomy, Electricity and Magnetism, Light and Optics, Plasma, Thermodynamics, Geophysics, Engineering, Instrumentation, Aerospace, Education, Technical Writing, Sales.

Major Employers:

Chemical, Electrical Equipment, Aircraft, Automobile, Computer Hardware and Software Manufacturers; Independent Research Centers and Laboratories; Colleges and Universities; Schools; Government Agencies including U.S. Departments of Defense and Commerce and National Aeronautics and Space Administration.