PHYSICS

SOUTHEASTERN ILLINOIS COLLEGE

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.

Suggested electives: BTC 121-3 Scientific Literature for Biotech, BTC 221-4 Introduction to Biotechnology, BTC 241-3 Immunology for Biotechnology, or BTC 242-3 Cell & Molecular Biology.

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
- ___ART 121-3 (F2 900) Art Appreciation
- ___ART 222-3 (F2 901) Prehistory to Medieval Art
- ___ART 223-3 (F2 902) Renaissance to Contemporary Art
- ___MUS 121-3 (F1 900) Music Appreciation
- ___MUS 126-3 (F1 904) Intro to American Music
- ___COM 128-3 (F2 905) Film Appreciation
- ___THTR 121-3 (F1 907) Introduction to Theater

Area 2
- ___ENG 243-3 (H3 902) Introduction to Drama
- ___ENG 245-3 (H3 906) World Literature
- ___ENG 246-3 (H3 907) Modern Literature
- ___ENG 261-3 (H3 914) American Literature I
- ___ENG 262-3 (H3 915) American Literature II
- ___PHIL 121-3 (H4 900) Intro to Philosophy
- ___PHIL 122-3 (H4 906) Fundamentals of Logic
- ___PHIL 221-3 (H4 904) Fundamentals of Ethics
- ___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
- ___ECE 141-3 (S6 903) Child Development
- ___PSYC 121-3 (S6 900) Intro Psychology
- ___PSYC 221-3 (S6 903) Child Psychology
- ___SOC 121-3 (S7 900) Intro Sociology
- ___SOC 221-3 (S7 902) The Family in Society

Area 2
- ___HIST 121-3 (S2 902) Western Civilization to 1648
- ___HIST 122-3 (S2 903) Western Civilization from 1648
- ___HIST 141-3 (S2 901N) Latin American History
- ___HIST 161-3 (S2 906N) African Culture
- ___HIST 241-3 (S2 900N) American History I
- ___HIST 242-3 (S2 901N) American History II

Area 3
- ___ECON 121-3 (S3 901) Macroeconomics
- ___ECON 122-3 (S3 902) Microeconomics
- ___GOVT 121-3 (S5 900) American Government
- ___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
- ___BIOL 121-4 (L1 900L) Introductory Biology
- ___BIOL 141-4 (L1 905L) Environmental Science
- ___BOT 121-4 (L1 901L) Introduction to Botany
- ___BIOL 221-4 (L1 900L) General Biology I

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.

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