

FOR  **Mineral Area College****Bachelor of Science (Engineering Physics)**

Students are encouraged to complete the Associate of Arts degree or the 42-hour general education block at Mineral Area College (MAC), as either waives the lower-level University Studies (general education) requirements at Southeast. Consult with an advisor at MAC regarding requirements for the 42-hour block or the AA degree.

The following lower-level (100-200) core/support courses are required for the Engineering Physics major and can be taken at MAC.

MINERAL AREA COLLEGE			SOUTHEAST MISSOURI STATE UNIVERSITY	
EGN2130	Engineering Mechanics-Statics	>	EP261	Engineering Mechanics-Statics
EGN2230	Engineering Mechanics-Dynamics	>	EP262	Engineering Mechanics-Dynamics
EGN2340	Intro to Electrical Engineering	>	EP240	Circuit Analysis
MAT1650	Analytic Geometry & Calculus I	>	MA140	Analytic Geometry & Calculus I
MAT2150	Analytic Geometry & Calculus II	>	MA145	Analytic Geometry & Calculus II
MAT2250	Analytic Geometry & Calculus III	>	MA240 and MA245	Analytic Geometry & Calculus III and Vector Calculus
MAT2330	Differential Equations	>	MA350	Differential Equations
PHS1350	General Chemistry I	>	CH185	General Chemistry
PHS2230	General Physics I	>	PH230	General Physics I
PHS2240	General Physics II	>	PH231	General Physics II
TEC1320	Advanced Computer Aided Design/Drafting	>	MN120	Fundamentals of Engineering Design Processes

1. A grade of "C" or better is required in each course. A grade of "C" or better is required in prerequisite courses in order to advance in the sequence.

2. Courses taken at MAC that are equivalent to a 3xx-5xx level course at Southeast will not count toward the 39 hours of upper-level coursework that is required to graduate from Southeast. Students may want to consider taking MA350 from Southeast.

Information on admission to Southeast is available from the Office of Admissions at www.semo.edu/admissions, (573) 651-2590 or admissions@semo.edu.

To verify transferability of other courses to Southeast, students may access



at portal.semo.edu

Mineral Area College Courses Which Meet University Studies Requirements at Southeast Missouri State University

Students who complete an AA degree or the 42-hour general education block from MAC have completed the lower-level University Studies (general education) courses at Southeast. For the student planning to transfer to Southeast without completing the AA degree or 42-hour general education block, the following courses taken at MAC meet University Studies requirements at Southeast. Some majors will require specific University Studies courses to meet degree requirements.

ENGLISH COMPOSITION

- ENG1330 English Composition I

ARTISTIC EXPRESSION

(Choose ONE Course)

- ART1530 Introduction to Humanities
- ART1550 Beginning Photography
- MSC1801 Appreciation of Music
- MSC1811 Appreciation of Jazz
- THE1000 Introduction to Theatre
- THE1040 Beginning Acting

LITERARY EXPRESSION

(Choose ONE Course)

- ENG1570 Introduction to Literature: Prose & Poetry
- ENG2330 English Literature I
- ENG2340 English Literature II
- ENG2430 American Literature I
- ENG2440 American Literature II
- ENG2460 Readings in Short Fiction
- ENG2490 Literature of the American South
- ENG2492 Women's Literature
- ENG2500 Multi-Cultural Literature
- ENG2530 Young Adult Literature
- ENG2580 Poetry and the Human Experience
- MFL2140 French Reading
- MFL2480 German Reading
- PHI1400 Introduction to Philosophy

ORAL EXPRESSION (Choose ONE Course)

- ENG1440 Public Speaking
- ENG1670 Interpersonal Communications I
- MFL1170 Elementary French
- MFL1270 Intermediate French
- MFL1370 Elementary Spanish I
- MFL1470 Elementary Spanish II
- MFL1560 German Language and Culture I
- MFL2130 French Composition & Conversation
- MFL2230 Intermediate Spanish I
- MFL2460 German Language and Culture II

WRITTEN EXPRESSION

- ENG1340 English Composition II

BEHAVIORAL SYSTEMS

(Choose ONE Course)

- EDU1100 Psychology of Adolescence
- EDU1300 Child Development
- PHI1420 Introduction to Ethics
- PSY1130 General Psychology
- PSY1250 Human Growth and Development

LIVING SYSTEMS (Choose ONE Course)

- AGR1120 Animal Science (taken Fall 2013 or later)
- AGR1230 Plant Science (taken Fall 2013 or later)
- BIO1100 Introduction to Biological Science
- BIO1150 General Biology
- BIO2112 General Botany
- BIO2122 General Zoology
- BIO1430 Environmental Science

LOGICAL SYSTEMS (Choose ONE Course)

- MAT1230 College Algebra
- MAT1530 Foundations of Mathematics
- MAT1600 Calculus for Business & the Social Sciences
- MAT1650 Analytic Geometry & Calculus I

PHYSICAL SYSTEMS

(Choose ONE Course)

- PHS1130 Physical Science
- PHS1250 Introductory Chemistry
- PHS1350 General Chemistry I
- PHS1420 College Physics I
- PHS2230 General Physics I
- PHS2400 Earth Science

DEVELOPMENT OF A MAJOR

CIVILIZATION (Choose ONE Course)

- HIS1100 World Civilization I
- HIS1130 Western Civilization I
- HIS1140 American History I
- HIS1240 American History II
- HIS1360 Latin American History
- HIS1520 World Civilization II

ECONOMIC SYSTEMS

(Choose ONE Course)

- BUS1330 Survey of Economics
- BUS2930 Principles of Macroeconomics
- BUS2940 Principles of Microeconomics

POLITICAL SYSTEMS

- POS1180 American Political Systems

SOCIAL SYSTEMS (Choose ONE Course)

- COM1000 Introduction to Mass Media
- GEO1130 Regional World Geography
- PED2820 Sport and Society
- PHI1410 Comparative Religion
- SOC1130 General Sociology
- SOC1600 Ethnicity and Cultural Differences in America
- SOC1620 Human Diversity



at portal.semo.edu

Additional courses, such as new courses or course numbers no longer in use, may satisfy University Studies requirements. Refer to the online "Transfer Course Conversion" to verify transferability of other courses to Southeast.

Office of the Registrar

(573) 651-2250 • registrar@semo.edu • www.semo.edu/registrar

Updated 03/15/13