



## Mineral Area College

### Bachelor of Science (Engineering Technology)

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 Technology major and can be taken at MAC.

MINERAL AREA COLLEGE		SOUTHEAST MISSOURI STATE UNIVERSITY	
CSC1500	Basic Programming	>	MN260 Technical Computer Programming Appl
EEE1970	Programmable Logic Controllers	>	ET304 Fundamentals of Programmable Logic Controllers
ENG1330	English Composition I	>	EN100 English Composition
MAT1230	College Algebra	>	MA134 College Algebra
MAT1330	Trigonometry	>	MA133 Plane Trigonometry
MAT1650	Analytic Geometry & Calculus I	>	MA140 Analytic Geometry & Calculus I
PHS1250	Introductory Chemistry	>	CH181 Basic Principles of Chemistry
PHS1420	College Physics I	>	PH120 Introductory Physics I
PHS1440	College Physics II	>	PH121 Introductory Physics II
SOC1600	Ethnicity & Cultural Differences in America	>	SW207 Understanding Culture & Social Diversity
TEC1040	Technical Writing	>	IM102 Technical Communication
TEC1580	Quality Control & Testing Fundamentals	>	IM311 Statistical Process Control
TEC2030	Basic Fluid Power	>	MN383 Fluid Power

1. CSC1500 transfers as IS130. Requires substitution by advising office.
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 ET304, IM311, and MN383 from Southeast.
3. Required courses in the major that also meet University Studies categories include MA134 (Logical Systems), PH120 (Physical Systems), and SW207 (Social Systems).

#### Electrical & Control option

EEE1580	Practical Electronics I	>	ET164 AC Principles & Circuits
EEE2040	Digital Electronics I	>	ET366 Microcontrollers

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Bachelor of Science (Engineering Technology) continued

**Mechanical & Manufacturing Systems option**

EEE1500	Basic Electronics	>	ET160	Basic Electricity & Electronics
TEC1160	Machine Shop II	>	MN203	Industrial materials & Processes I
TEC1320	Advanced Computer Aided Design	>	MN120	Fundamentals of Engineering Design Process
TEC1400	Machine Design	>	MN219	Statics & Strength of Materials
TEC1600	Materials Analysis	>	MN170	Engineering Materials & Testing
TEC1790	Basic Numerical Control Programming	>	MN304	Industrial Materials & Process II
TEC1800	Advanced Numerical Control Programming	>	MN354	Computer Aided Manufacturing

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

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



*at [portal.semo.edu](http://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](http://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](mailto:registrar@semo.edu) • [www.semo.edu/registrar](http://www.semo.edu/registrar)

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