

Southern Illinois University- Carbondale
AAS in Engineering Technology to
BS in Industrial Management and Applied Engineering
(2016-2017 Catalog)

Southern Illinois University

Carbondale, IL 62901

Phone: (888) 536-4112

Website: www.engr.siu.edu/tocdp

Contact: Marilyn Updike, Program Advisor, 618-453-7989, mmupdike@siu.edu

Transfer guides are produced as a service to MCC students. Every effort is made to maintain up-to-date and accurate information; however, this information is subject to change. Such changes take precedence over the information on this guide. Students should work with an MCC advisor and the four-year transfer school. Responsibility for complying with all applicable requirements ultimately rests with the student.

MCC and SIUC have entered into a Program Articulation Agreement between the AAS in Engineering Technology and the BS in Industrial Management and Applied Engineering. The agreement takes full advantage of SIUC's Capstone Option, which reduces the SIUC University Core Curriculum from 41 semester hours to 30.

SIUC offers the BS in Industrial Management and Applied Engineering through the University Center of Lake County in Grayslake, Illinois. Industrial Management and Applied Engineering professionals are responsible for production planning and scheduling, quality control, facilities planning, cost estimating, computer-aided manufacturing, maintenance, safety, or other production related functions.

Admission

A McHenry County College graduate receiving an AAS in Engineering Technology will be considered for the Capstone Option and admission to SIUC's Industrial Management and Applied Engineering program, if the following are met:

- Completion of SIUC undergraduate admissions application and admission to the University
- Completion of a minimum of 60 transferable credit hours to SIUC
- Minimum cumulative 2.00 GPA for collegiate work as calculated by SIUC
- Completion of at least 17 credit hours of transferable SIUC University Core Curriculum credit, as noted on the second page of this guide
- Completion of the major related courses specified on the second page of this guide

A McHenry County College student transferring to the Industrial Management and Applied Engineering program at SIUC who has not completed the AAS in Engineering Technology at MCC will have related coursework evaluated on a course-by-course basis, will not be eligible for the Capstone Option, and will be considered based upon enrollment criteria and space availability.

Note: SIUC's Dual Admission Program allows baccalaureate oriented freshman students at community colleges to benefit from pre-advisement through SIUC for a chosen major at SIUC. For more information:

<http://admissions.siu.edu/dap/>.

Education Plan – The following is a recommended degree plan for students who plan to complete the AAS in Engineering Technology degree at MCC and be considered for admission to SIUC's Capstone Option for the BS in Industrial Management and Applied Engineering

AAS in Engineering Technology								
Program Requirements	Credit Hours	Courses						
Communications	6	____ ENG151 Composition I (grade of C or better) ____ SPE151 Introduction to Speech						
Mathematics, Physical Sciences or Life Sciences	5	____ MAT165 College Algebra w/Trigonometry						
Social & Behavioral Sciences	3	____ Select 1 course from following: ANT151, 155, 160, 170; ECO150, 251, 252; GEG202, 203, 204; HIS130, 131, 132, 165, 170, 172; PLT150, 151, 155, 160, 251, 255, 261, 281; PSY151, 250, 251, 255, 260, 265, 271; SOC151, 175, 251, 260, 261						
Humanities & Fine Arts	3	____ Select 1 course from following: Fine Arts: ART150, 151, 153, 155, 165, 174, 175, 253, 171, 172; JRN180; MUS151, 153, 154, 171, 172; THE 151 Humanities: ART150; ENG 240, 251, 253, 254, 255, 256, 260, 261, 270, 271, 272, 275, 276, 277; PHI 151, 155, 160, 240, 251, *261, 262; SPA251, 252; FRE251, 252; GER251, 252						
Program Core	42	AET151, AET152 or 172, AET171, IMT100, IMT102, IMT103, IMT104, IMT105, IMT106, IMT120 or 121, IMT250 or AET261, AET Elective						
Program Electives	9	Select the Mechanical Emphasis or the Industrial Emphasis <table><tr><td>Mechanical Emphasis</td><td>Industrial Emphasis</td></tr><tr><td>AET271 or IMT109, IMT155,</td><td>IMT117, IMT210, IMT215</td></tr><tr><td>AET elective or ROB110</td><td></td></tr></table>	Mechanical Emphasis	Industrial Emphasis	AET271 or IMT109, IMT155,	IMT117, IMT210, IMT215	AET elective or ROB110	
Mechanical Emphasis	Industrial Emphasis							
AET271 or IMT109, IMT155,	IMT117, IMT210, IMT215							
AET elective or ROB110								
Total Credits	65							

Additional Courses to Complete Through MCC

It is very important to work with the SIUC contact noted on the first page of this guide when selecting additional coursework. Please Note: SIUC requires a minimum of 42 semester hours of 300/400 level coursework completed through a four-year institution. (The last 30 hours of the bachelor's degree must be completed through SIUC.) This means that a maximum of 78 credits from a community college **will apply** toward SIUC's bachelor's degree. Some of the coursework in your AAS degree transfers to SIUC as elective credit, but it is beyond the number of elective credits that will apply to the BS degree. You may complete the following additional courses at MCC, and they will apply toward SIUC general education requirements.

Select from the following MCC courses

- PHY280 General Physics I – 4 credits
and
PHY281 General Physics II – 4 credits
- IAI Social Science – 3 credits; select 1 course from Social & Behavioral Sciences area in above chart
- IAI Humanities & IAI Fine Arts – 3 credits; SIUC requires 1 Humanities and 1 Fine Arts. Select 1 course from one of the areas below not represented in the AAS degree:
 - Fine Arts: ART151, 153, 155, 165, 174, 175, 253; JRN180; MUS151, 153, 171, 172; THE 151
 - Humanities: ART150, 170, 172; ENG 240, 251, 253, 254, 255, 256, 260, 261, 270, 271, 272, 275, 276, 277; PHI 151, 155, 240, 251, 261, 262; SPA251, 252; FRE251, 252; GER251, 252
- IAI Life Science – 3 credits: select 1 course from following: BIO110, BIO130, BIO137, BIO157, BIO158, HRT103
- Multicultural – 3 credits: select 1 course from following: EDU255; ENG260, 275; HIS141, 170; MUS154; PHI158, 160; SOC175, SOC260, SOC261; SPE265.

Please note that a single course can satisfy only one general education/core curriculum requirement.

Courses You Will Complete Through Southern Illinois University Carbondale

NOTE: SIUC requires the following courses for a BS in Industrial Management and Applied Engineering. A minimum 42 credits of 300/400 level courses must be completed through SIUC or a four-year institution (in bold print). The last 30 hours must be completed through SIUC. Courses not in bold print can be completed through MCC, as noted on the previous page.

<u>Course #</u>	<u>Course Title</u>	<u>Credits</u>
PHYS 203/253A	College Physics/Lab	4
PHYS 203/253B	College Physics/Lab	4
	Remaining SIUC University Core Curriculum	12
IMAE110	Geometric Dimensioning & Tolerancing	3
IMAE305	Industrial Safety	3
IMAE307	Applied Calculus for Tech	3
IMAE340	Intro to Supervision	3
IMAE376	Supply Chain Operations & Logistics	3
IMAE390	Cost Estimating	3
IMAE392	Facilities Plan/Workplace Design	3
IMAE442	Fundamentals of Leadership	3
IMAE445	Computer Aided Manufacturing	3
IMAE450	Project Management	3
IMAE465	Lean Manufacturing	3
IMAE470A	Six Sigma Green Belt I	3
IMAE470B	Six Sigma Green Belt II	3
IMAE 476	Supply Chain Design & Strategy	3
	Electives 300/400 level	6
Total credits beyond your AAS needed to complete the BS degree (as outlined in this guide)		65