

Engineering Technology
Bachelor of Science in Engineering Technology (B.S.E.T.) <039T>
 Civil Area of Emphasis [ET12]
 Catalog Year 2016-17

Fifth Semester				Sixth Semester			
MATH	315	Advanced Technical Math	4.00	GEOL	312	Geology	3.00
ENGL	305	Technical Writing	3.00	CIET	325	Codes, Contracts, and Cost Analysis	3.00
MEET	316	Dynamics ⁽⁴⁾	3.00	CIET	355	Construction Estimating, or MATH 216, or MATH 300-level (+)	3.00
CIET	382	Environmental Engr Technology	3.00	CIET	330	Comp Appl in Hydraulics/Hydrology	3.00
		Technical Speciality Elective ⁽²⁾	3.00			Technical Speciality Elective ⁽²⁾	3.00
			<u>16.00</u>				<u>15.00</u>
Seventh Semester				Eighth Semester			
GEF	6	The Arts and Creativity	3.00	INDT	420	Construction Technology	3.00
CIET	320	Construction Methods & Equipment	3.00	GNET	489	Senior Seminar & Project ⁽³⁾	2.00
INDT	302	Industrial Safety	3.00	GEF	7	Global Studies and Diversity	3.00
DRET	314	Computer Graphics	3.00			Technical Speciality Elective ⁽²⁾	3.00
		Technical Speciality Elective ⁽²⁾	3.00			Technical Speciality Elective ⁽²⁾	3.00
		Advanced CAD Elective ⁽⁵⁾	3.00				<u>3.00</u>
			<u>18.00</u>				<u>14.00</u>
Total hours necessary to earn degree =			63.00				

Notes: ⁽¹⁾ All requirements of the General Education Foundations curriculum must be met. Some of these requirements are normally satisfied by courses taken for the AS degree.

⁽²⁾ To be approved by advisor. See advisor for approved electives. One technical elective will be selected from the following courses: INDT 384, MATH 261, MEET 435 or any CS 200+ or EE 300+ level course approved by both departments. Exceptions require department chair consent. Other technical specialty electives may be selected from the other ELET courses or courses in other Engineering Technology fields or in engineering fields if prerequisite knowledge is sufficient. A minimum of 40 semester hours of upper division courses is required.

⁽³⁾ Capstone Course.

⁽⁴⁾ MAE 242 - Dynamics may be substituted.

⁽⁵⁾ Must take one of the following courses: DRET 284 - Micro Station, DRET 285 - Land & Topographic Design, DRET 286 - Parametric Modeling, DRET 288 - SurvCAD, or DRET 499 - Techniques in GPS/GIS.

REMARK: Students choosing to double major in B.S.E.T. programs must have at least 18 hours of different course work between the two programs.

Engineering Technology
Bachelor of Science in Engineering Technology (B.S.E.T.) <039T>
Environmental Area of Emphasis [ET13]
 Catalog Year 2016-17

Fifth Semester				Sixth Semester			
CHEM	116	Fundamentals of Chemisry II	4.00	GEF	5	Human Inquiry and the Past	3.00
PHYS	101	Introductory Physics I	4.00	GEF	6	The Arts and Creativity	3.00
MATH	315	Advanced Technical Math	4.00	GEOL	312	Geology	3.00
ENGL	305	Technical Writing	3.00	CIET	325	Codes, Contracts, and Cost Analysis	3.00
CIET	382	Environmental Engr Technology	<u>3.00</u>	CIET	330	Comp Appl in Hydraulics/Hydrology	3.00
			18.00			Technical Speciality Elective ⁽²⁾	<u>3.00</u>
							18.00
Seventh Semester				Eighth Semester			
CE	425	Engineering Hydrology	3.00	GEF	7	Global Studies and Diversity	3.00
CHE	201	Material & Energy Balances I	3.00	CE	466	Solid Waste Management	3.00
CHEM	215	Analytic Chemistry	4.00	BIOL	240	Microbiology	4.00
DRET	314	Computer Graphics	3.00	GNET	489	Senior Seminar & Project ⁽³⁾	2.00
GNET	412	Project Management	<u>3.00</u>			Technical Speciality Elective ⁽²⁾	3.00
			16.00			Technical Speciality Elective ⁽²⁾	<u>3.00</u>
							18.00
Total hours necessary to earn degree =			70.00				

Notes: ⁽¹⁾ All requirements of the General Education Foundations curriculum must be met. Some of these requirements are normally satisfied by courses taken for the AS degree.

⁽²⁾ To be approved by advisor. See advisor for approved electives. A minimum of 40 semester hours of upper division courses is required.

⁽³⁾ Capstone Course.

REMARK: Students choosing to double major in B.S.E.T. programs must have at least 18 hours of different course work between the two programs.

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Mechanical Area of Emphasis [ET14]
 Catalog Year 2016-17

Fifth Semester				Sixth Semester			
DRET	314	Computer Graphics	3.00	GEF	7	Global Studies and Diversity	3.00
ENGL	305	Technical Writing	3.00	GNET	308	Adv. Computer Apps, or MANG 386, or MATH 261, or MATH 300-level (+)	3.00
GNET	412	Project Management	3.00	INDT	308	Automated Manufacturing	3.00
MATH	315	Advanced Technical Math	4.00	INDT	354	Industrial Materials ⁽⁶⁾	3.00
MEET	316	Dynamics ⁽⁴⁾	3.00	MEET	435	Energy Conversion Systems	3.00
			16.00				15.00
Seventh Semester				Eighth Semester			
GEF	6	The Arts and Creativity	3.00	GEF	4	Society and Connections	3.00
GNET	410	"C" Programming for Tech	3.00	GEF	5	Human Inquiry and the Past	3.00
INDT	302	Industrial Safety	3.00	GNET	489	Senior Seminar & Project ⁽³⁾	2.00
			3.00	INDT	410	Plant & Equipment Maintenance	3.00
			3.00				3.00
			15.00				17.00
Total hours necessary to earn degree =			63.00				

Notes: ⁽¹⁾ All requirements of the General Education Foundations curriculum must be met. Some of these requirements are normally satisfied by courses taken for the AS degree.

⁽²⁾ To be approved by advisor. The student's overall program, must include a sequence of courses in at least three of the following areas: manufacturing processes, mechanical design, engineering materials, solid mechanics, fluid mechanics, electro-mechanical devices and controls or industrial operations. MAE courses may be taken with the approval of both of the Advisor and the Chair of Mechanical Engineering, if prerequisites are met. A minimum of 40 semester hours of upper division courses is required.

⁽³⁾ Capstone Course.

⁽⁴⁾ MAE 112 - Dynamics may be substituted.

⁽⁵⁾ To be approved by advisor and department chair. The Open Elective course may be a technical speciality course.

⁽⁶⁾ MAE 420 - Materials Engineering may be substituted.

REMARK: Students choosing to double major in B.S.E.T. programs must have at least 18 hours of different course work between the two programs.