

**BSET Mechanical Engineering Technology Checksheet**

Rev: Original  
Catalog Date: 2024-2025

Last Name: \_\_\_\_\_  
First Name: \_\_\_\_\_  
Student ID: \_\_\_\_\_

Overall GPA: \_\_\_\_\_  
Major GPA: \_\_\_\_\_

YR	Course #	Course Name	Hr	Grade	Pre/Co-Requisites	Comments
<b>Freshman - Fall</b>						
_____	ETGR 1201	Introduction to ET & CM <sup>(c)</sup>	2	_____	MATH 1100	_____
_____	ETME 1111	CAD Modeling I <sup>(c)</sup>	3	_____		_____
_____	MATH 1103	Precalc Math for Sci. & Eng. <sup>(c)</sup>	3	_____		_____
_____	PHYS 1101	Introductory Physics I <sup>(c)</sup>	3	_____	MATH 1103	_____
_____	PHYS 1101L	Introductory Physics I Laboratory <sup>(c)</sup>	1	_____	PHYS 1101	_____
_____	WRDS 1103	Writing & Inquiry in Academic Contexts I & II <sup>(c)</sup>	3	_____		_____
			<b>Total</b>	<b>15</b>		

<b>Freshman - Spring</b>						
_____	ETME 1112	CAD Modeling II <sup>(c)</sup>	3	_____	ETME 1111*	_____
_____	MATH 1121	ET Calculus, or MATH 1241(c)	3	_____	MATH 1103*	_____
_____	PHYS 1102	Introductory Physics II <sup>(c)</sup>	3	_____	PHYS 1101*	_____
_____	PHYS 1102L	Introductory Physics II Laboratory <sup>(c)</sup>	1	_____	PHYS 1101L or PHYS 2101L, PHYS 1102	_____
_____	XXXX 1512	Refer to DegreeWorks for Local Theme - Arts & Humanities <sup>(a)</sup>	3	_____	See Footnote (a) below	_____
_____	XXXX 1502	Refer to DegreeWorks for Global Theme - Arts & Humanities <sup>(a)</sup>	3	_____	See Footnote (a) below	_____
			<b>Total</b>	<b>16</b>		

<b>Sophomore - Fall</b>						
_____	ETME 2100	Sophomore Design Practicum	2	_____	ETGR 1101*, ETME 1112*, ETME 2100L	_____
_____	ETME 2100L	Sophomore Design Practicum Lab	1	_____	<b>ETME 2100</b>	_____
_____	XXXX 1511	Refer to DegreeWorks for Local Theme - Social Science <sup>(a)</sup>	3	_____	See Footnote (a) below	_____
_____	ETGR 2101	Applied Mechanics I <sup>(c)</sup>	3	_____	MATH 1103	_____
_____	CHEM 1251	General Chemistry I	3	_____	MATH 1100* or CHEM 1200*	_____
_____	ETEL 2101	Circuit Fundamentals	3	_____	MATH 1103*	_____
			<b>Total</b>	<b>15</b>		

<b>Sophomore - Spring</b>						
_____	XXXX 1501	Refer to DegreeWorks for Global Theme - Social Science (a)	3	_____	See Footnote (a) below	_____
_____	ETME 2102	Mechanisms	3	_____	ETME 1111*, MATH1121*, PHYS 1101*	_____
_____	CTCM 2530	Critical Thinking and Comm	3	_____		_____
_____	ETGR 2272	Engineering Analysis II or MATH 1242(c)	3	_____	MATH 1121* or MATH 1241*	_____
_____	ETME 2141	Applied Engineering Materials	3	_____	ETGR 1201*	_____
			<b>Total</b>	<b>15</b>		

Course in *italics* can be taken as a pre or co requisite  
Course in **bold** must be taken as a co requisite  
\* = grade of C or better required in prerequisite course

- Footnotes:**  
 (a) DegreeWorks will state which course(s) you still need to complete the requirement. Please follow DegreeWorks when registering for general education theme courses.  
 (b) Major elective courses are chosen jointly by student and advisor from the course list approved by the Department as major electives. Other courses related to the student's professional interests and career goals may be considered but all such requests to take alternative major elective courses must be approved in writing by the ETCM Department.  
 (c) These courses must be completed with a grade of C or better.  
 (d) ETME3100, Senior Standing, completion of all lower division courses and any deficiencies, and approval by department. *ETME3113, ETME3213, ETME3250, and ETME3150*

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<b>Junior - Fall</b>						
_____	ETME 2142	Applied Manufacturing	3	_____	ETGR 1201*	_____
_____	STAT 1220	Elements of Statistics I	3	_____	MATH 1100	_____
_____	ETME 3113	Dynamics	3	_____	ETGR 2101*, ETGR 2272	_____
_____	ETME 3133	Fluid Mechanics	3	_____	ETGR 2101*, MATH 1121	_____
_____	ETME 3123	Strength of Materials	3	_____	ETGR 2101*	_____
_____	ETME 3123L	Stress Analysis Lab	1	_____	WRDS 1103* OR WRDS 1104*, ETME 3123	_____
			<b>Total</b>	<b>16</b>		

<b>Junior - Spring</b>						
_____	ELET 2241	Instrumentation and Controls	3	_____	ETEL 2101 or ETGR 2106	_____
_____	ETME 3100	Junior Design Practicum	3	_____	ETME 2100, ETME 3133, ETME 3100L	_____
_____	ETME 3100L	Junior Design Practicum Lab	1	_____	<b>ETME 3100</b>	_____
_____	ETME 3250	Principles of Thermal Engineering	3	_____	ETME 3133, ETGR 2272*	_____
_____	ETME 3213	Machine Design I	3	_____	ETME 2141, ETME 2102, ETME 3123	_____
_____	ETGR 3171	Engineering Analysis III or ETGR 4272	3	_____	ETGR 2272* or MATH 1242* and STAT 1220*	_____
			<b>Total</b>	<b>16</b>		

<b>Senior - Fall</b>						
_____	ETME 3150	Applied CAD Modeling and Simulation	3	_____	ETME 1111*, ETME 2102, ETME 3123	_____
_____	ETGR 4100	Capstone Design Project I	2	_____	See Footnote (d) below	_____
_____	ETME 4250	Thermal Engineering Applications	3	_____	ETME 3250	_____
_____	Major Elective	_____	3	_____	See Footnote (b) below	_____
_____	Major Elective	_____	3	_____	See Footnote (b) below	_____
			<b>Total</b>	<b>14</b>		

<b>Senior - Spring</b>						
_____	ETGR 3222	Engineering Economics	3	_____		_____
_____	ETGR 3295	Multidisciplinary Professional Development	1	_____	Junior or Senior standing	_____
_____	ETGR 4200	Capstone Design Project II	2	_____	ETGR 4100	_____
_____	ETME 4250L	Thermal Fluids Lab	1	_____	WRDS 1103 OR WRDS 1104, ETME 3250	_____
_____	Major Elective	_____	3	_____	See Footnote (b) below	_____
_____	Major Elective	_____	3	_____	See Footnote (b) below	_____
			<b>Total</b>	<b>13</b>		

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