

# BSET Mechanical Engineering Technology Checksheet

Rev: Original  
Catalog Date: 2023-2024

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

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

<u>SEM &amp; YR</u>	<u>Course #</u>	<u>Course Name</u>	<u>Hr</u>	<u>Grade</u>	<u>Pre/Co-Requisites</u>	<u>Comments</u>
<b>Junior - Fall</b>						
_____	ETME 3113	Dynamics	3	_____	ETGR 2101*, <i>ETGR 2272</i>	_____
_____	ETME 3123	Strength of Materials	3	_____	ETGR 2101*	_____
_____	ETME 3133	Fluid Mechanics	3	_____	ETGR 2101*, <i>MATH1121</i>	_____
_____	ETGR 3171	Engineering Analysis III or ETGR 4272	3	_____	ETGR 2272* or MATH 1242* and STAT 1220*	_____
_____	ETGR 3222	Engineering Economics	3	_____		_____
			<b>Total</b>	<b>15</b>		
<b>Junior - Spring</b>						
_____	Lab Elective	_____	1	_____	See Footnote (d) below	_____
_____	ETME 3100	Junior Design Practicum	3	_____	ETME 2100, <i>ETME 3133</i> , <b>ETME 3100L</b>	_____
_____	ETME 3100L	Junior Design Practicum Lab	1	_____	<b>ETME 3100</b>	_____
_____	ETME 3250	Principles of Thermal Engineering	3	_____	ETME 3133, <i>ETGR 2272</i> *	_____
_____	ETME 3150	Applied CAD Modeling and Simulation	3	_____	ETME 1111*, ETME 2102, ETME 3123	_____
_____	ETME 3213	Machine Design I	3	_____	ETME 2141, ETME 2102, ETME 3123	_____
			<b>Total</b>	<b>14</b>		
<b>Senior - Fall</b>						
_____	ETGR 4100	Capstone Design Project I <sup>(c)</sup>	2	_____	See Footnote (e) below	_____
_____	ETME 4250	Thermal Engineering Applications	3	_____	ETME 3250	_____
_____	XXXX 15XX	Refer to DegreeWorks for themes course <sup>(a)</sup>	3	_____	See Footnote (a) below	_____
_____	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 3295	Multidisciplinary Professional Development	1	_____	Junior or Senior standing	_____
_____	ETGR 4200	Capstone Design Project II	2	_____	ETGR 4100	_____
_____	ELET 2241	Instrumentation and Controls	3	_____	ELET2112 or ETGR 2106, <b>ELET2241L</b>	_____
_____	ELET 2241L	Instrumentation Lab	1	_____	<b>ELET 2241</b>	_____
_____	XXXX 15XX	Refer to DegreeWorks for themes course <sup>(a)</sup>	3	_____	See Footnote (a) below	_____
_____	Major Elective	_____	3	_____	See Footnote (b) below	_____
_____	Major Elective	_____	3	_____	See Footnote (b) below	_____
			<b>Total</b>	<b>16</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) Choose from either ETME 3123L (W) (WRDS 1103\* OR WRDS 1104\*, ETGR 1100L\*, *ETME 3123*) or ETME 4250L (W) (WRDS 1103 OR WRDS 1104, *ETME 3250*)
- (e) ETME3100, Senior Standing, completion of all lower division courses and any deficiencies, and approval by department. *ETME3113, ETME3213, ETME3250, ETGR3222, ETME3150, and ETME3123L OR ETME4250L*

# BSET Mechanical Engineering Technology 2+2 Checksheet

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Catalog Date: 2023-2024

Last Name: \_\_\_\_\_ 0

Student ID: \_\_\_\_\_ 0

Community College: \_\_\_\_\_

Degree Program: \_\_\_\_\_

## Community College Prerequisites

UNC Charlotte Required Completed Subjects	UNC Charlotte		NCCCS Acceptable Course	Course	Grade	MET
	Hrs	Course				
English Composition and/or Technical Writing	3	WRDS 1103	ENG 111, 112, 113, 114			NO
Precalculus (MAT 172 preferred)	3	MATH 1103	MAT 172, 175			NO
Differential and Integral Calculus	6	MATH1121* or ETGR2171*	MAT 223, 263, 271			NO
		ETGR 2272	MAT 272			NO
Physics I +Lab	3	PHYS 1101	PHY 151, 251			NO
	1	PHYS 1101L				
Physics II +Lab	3	PHYS 1102	PHY 152, 252			NO
	1	PHYS 1102L				
Chemistry	3	CHEM 1251	CHM 151			NO
Parametric Solid Modeling	3	ETME 1111	DFT 152, 153, 154, 170			NO
Eng. Materials or Metallurgy	3	ETME 2141	MEC 142, 161			NO
Manufacturing Processes	3	ETME 2142	EGR 230, MEC 145, 180			NO
Statics	3	ETGR 2101	MEC 210, 250, 251, EGR 250,251			NO
Kinematics or Mechanisms (MEC 275 preferred)	3	ETME 2102	MEC 130, 275			NO
DC Circuits	3	ETGR 2106	ELC 111, 112, 131, 138			NO
Machine Shop Practices	2	ETME 2100	MEC 111, MAC 111, MAC 141			NO
Machine Shop Practices Lab	1	ETME 2100L				
<b>Other MET Specific / Technical Classes</b>						