

BSET Mechanical Engineering Technology Checksheet

Rev: Original
Catalog Date: 2022-2023

Last Name: _____
First Name: _____
Student ID: _____

Overall GPA: _____
Major GPA: _____

<u>SEM & YR</u>	<u>Course #</u>	<u>Course Name</u>	<u>Hr</u>	<u>Grade</u>	<u>Pre/Co-Requisites</u>	<u>Comments</u>
Freshman - Fall						
_____	ETGR 1100L	ET Computer Applications Lab ^(c)	1	_____		_____
_____	ETGR 1101	Introduction to ET & CM ^(c)	1	_____	<i>MATH 1100</i>	_____
_____	ETME 1111	CAD Modeling I ^(c)	3	_____		_____
_____	MATH 1103	Precalc Math for Sci. & Eng. ^(c)	3	_____		_____
_____	PHYS 1101	Introductory Physics I ^(c)	3	_____	<i>MATH1103</i>	_____
_____	PHYS 1101L	Introductory Physics I Laboratory ^(c)	1	_____	<i>PHYS 1101</i>	_____
_____	WRDS 1103	Writing & Inquiry in Academic Contexts I & II ^(c)	3	_____		_____
			Total	15		

Freshman - Spring						
_____	ETME 1112	CAD Modeling II ^(c)	3	_____	ETME 1111*	_____
_____	MATH 1121	ET Calculus, ETGR 2171 or MATH 1241 ^(c)	3	_____	MATH 1103*	_____
_____	PHYS 1102	Introductory Physics II ^(c)	3	_____	PHYS 1101*	_____
_____	PHYS 1102L	Introductory Physics II Laboratory ^(c)	1	_____	PHYS 1101L or PHYS 2101L, <i>PHYS 1102</i>	_____
_____	LBST 110X	Refer to DegreeWorks for LBST course ^(f)	3	_____	See Footnote (f) below	_____
_____	Social Science:	Refer to DegreeWorks for Social Science course(a)	3	_____	See Footnote (a) below	_____
			Total	16		

Sophomore - Fall						
_____	ETME 2100	Sophomore Design Practicum	2	_____	ETGR 1101*, ETME 1112*, ETME 2100L	_____
_____	ETME 2100L	Sophomore Design Practicum Lab	1	_____	ETME 2100	_____
_____	ETME 2130	Applied Materials and Manufacturing I	3	_____	ETGR 1101*	_____
_____	ETGR 2101	Applied Mechanics I ^(c)	3	_____	MATH 1103	_____
_____	CHEM 1251	General Chemistry I	3	_____	MATH 1100* or CHEM 1200*	_____
_____	STAT 1220	Elements of Statistics I	3	_____	MATH1100	_____
			Total	15		

Sophomore - Spring						
_____	ETGR 2106	Electronic Circuits and Devices	3	_____	MATH1103	_____
_____	ETME 2102	Mechanisms	3	_____	ETME 1111*, MATH1121*, PHYS 1101*	_____
_____	ETME 2131	Applied Materials and Manufacturing II	3	_____	ETME 2130	_____
_____	ETGR 2272	Engineering Analysis II or MATH 1242 ^(c)	3	_____	MATH 1121* or MATH 1241*	_____
_____	LBST 2XXX	Refer to DegreeWorks for LBST course ^(f)	3	_____	See Footnote (f) below	_____
			Total	15		

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 Social Sciences courses are eligible to complete the requirement. Please follow DegreeWorks when registering for Social Science 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 4244L (W) (WRDS 1103 OR WRDS 1104, ETME 3143)
 - (e) ETME3100, Senior Standing, completion of all lower division courses and any deficiencies, and approval by department. *ETME3113, ETME3213, ETME3143, ETGR3222, ETME3150, and ETME3123L OR ETME4244L*
 - (f) DegreeWorks will state which LBST course(s) you still need to complete the requirement. Please follow DegreeWorks when registering for LBST courses.

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SEM

& YR	Course #	Course Name	Hr	Grade	Pre/Co-Requisites	Comments
Junior - Fall						
_____	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	_____		_____
			Total	15		

Junior - Spring

_____	Lab Elective		1	_____	See Footnote (d) below	_____
_____	ETME 3100	Junior Design Practicum	3	_____	ETME 2100, <i>ETME 3133</i> , ETME 3100L	_____
_____	ETME 3100L	Junior Design Practicum Lab	1	_____	ETME 3100	_____
_____	ETME 3143	Thermodynamics	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 1	3	_____	ETME 2130, ETME 2102, ETME 3123	_____
			Total	14		

Senior - Fall

_____	ETGR 4100	Capstone Design Project I (O, W)	2	_____	See Footnote (e) below	_____
_____	ETME 4244	Applied Heat Transfer	3	_____	ETME 3143	_____
_____	LBST 2XXX	Refer to DegreeWorks for LBST course ^(f)	3	_____	See Footnote (f) below	_____
_____	Major Elective	_____	3	_____	See Footnote (b) below	_____
_____	Major Elective	_____	3	_____	See Footnote (b) below	_____
			Total	14		

Senior - Spring

_____	ETGR 3295	Multidisciplinary Professional Development	1	_____	Junior or Senior standing	_____
_____	ETGR 4200	Capstone Design Project II (O, W)	2	_____	ETGR 4100	_____
_____	ELET 2241	Instrumentation and Controls	3	_____	ELET2112 or ETGR 2106, ELET2241L	_____
_____	ELET 2241L	Instrumentation Lab (W)	1	_____	ELET 2241	_____
_____	LBST 2XXX	Refer to DegreeWorks for LBST course ^(f)	3	_____	See Footnote (f) below	_____
_____	Major Elective	_____	3	_____	See Footnote (b) below	_____
_____	Major Elective	_____	3	_____	See Footnote (b) below	_____
			Total	16		

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BSET Mechanical Engineering Technology 2+2 Checksheet

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Last Name: _____ 0

Student ID: _____ 0

Community College: _____

Degree Program: _____

Community College Prerequisites

UNC Charlotte General	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
Manufacturing Processes	3	ETME 2130	MEC 142, 161			NO
Engr. Materials or Metallurgy	3	ETME 2131	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				
Other MET Specific / Technical Classes						