

ENGINEERING SCIENCE – COLLEGE OF TECHNOLOGY PATHWAY PROGRAM

This curriculum is highly sequential. Therefore, in order to meet prerequisites please take courses in the suggested sequence.

Naugatuck Valley Community College

Office of Academic Affairs

PROGRAM OF STUDY SHEET

STUDENT NAME: _____ ID @ _____ DATE: _____

ADVISOR: _____ TRANSFER PLANS: _____

SECTION A: GENERAL EDUCATION REQUIREMENTS

<u>RECOMMENDED SEMESTER</u>	<u>COMPETENCY</u>	<u>COURSE NUMBER/TITLE</u>	<u>CREDITS</u>	<u>GRADE</u>
	Aesthetic Dimensions/Written Communications	ART*H101 or H102; MUS*H101; THR*H101	3	
	Continuing Learning/Information Literacy/Ethics	ECN*H101 Prin. Macroeconomics	3	
	Historical Knowledge	HIS*H101, H102, H201 or H202	3	
	Oral Communication	COM*H173 Public Speaking	3	
1	Quantitative Reasoning	MAT*H254 Calculus I	4	
1	Scientific Knowledge	CHE*H121 General Chemistry I	4	
2	Scientific Reasoning	PHY*H221 Calc-Based Physics I	4	
n/a	Social Phenomena	exempt	0	n/a
1	Written Communication/Critical Analysis/Logical Think	ENG*H101 Composition	3	
2	Written Communication	ENG*H102 Lit and Comp	3	

SECTION B: PROGRAM REQUIREMENTS

<u>RECOMMENDED SEMESTER</u>	<u>COURSE</u>	<u>TITLE</u>	<u>CREDITS</u>	<u>GRADE</u>
1	EGR*H111	Introduction to Engineering†	3	
2	MAT*H256	Calculus II	4	
3	MAT*H268	Calculus III: Multivariable	4	
3	PHY*H222	Calculus-Based Physics II	4	
3	EGR*H211	Engineering Statics†	3	
4	MAT*H285	Differential Equations	3	
4	EGR*H212	Engineering Dynamics†	3	
2 or 4	Choose from:	EGR*H214† OR EGR*H215† OR CHE*H122	3-4	
	PHL*H111	Ethics	3	
		Directed elective††	3-4	

TOTAL CREDITS REQUIRED NOT FEWER THAN: 63-65

ADDITIONAL COMMENTS: _____

STUDENT SIGNATURE _____ DATE: _____

ADVISOR SIGNATURE _____ E-MAIL: _____@nv.edu PHONE: (203) _____

† Not currently offered at NVCC; Tunxis, Gateway, Housatonic, Norwalk and CCSU offer the courses.

†† Choose from ANT*H101, BIO*H121, CHE*H122, any EGR* course, ENG*H202, GEO*H111, POL*H103 after consultation with the STEM Director.

Engineering Science Associate of Science Degree - College of Technology Pathway

For Transfer to CCSU Mechanical or Civil Engineering program

Student Name:

Student ID#: @

FIRST SEMESTER

Course	Credits	Pre-requisites	Enrolled	Grade
MAT*H254 Calculus I	4	≥C in MAT*H185		
EGR*H111 Intro to Engineering [†]	3	MAT*H172		
CHE*H121 General Chemistry I	4	MAT*H172 (co-req)		
ENG*H101 Composition	3	≥C in ENG*H063 or H096		
COM*H173 Public Speaking	3	none		
Total	17			

SECOND SEMESTER

Course	Credits	Pre-requisites	Enrolled	Grade
MAT*H256 Calculus II	4	≥C in MAT*H254		
PHY*H221 Calculus-Based Physics I	4	≥C in MAT*H254		
ENG*H102 Literature and Composition	3	≥C in ENG*H101		
HIS*H101, H102, H201 <i>or</i> H202	3	ENG*H101 eligibility		
PHL*H111 Ethics	3	ENG*H101		
Total	17			

THIRD SEMESTER

Course	Credits	Pre-requisites	Enrolled	Grade
MAT*H268 Calculus III: Multivariable	4	≥C in MAT*H256		
PHY*H222 Calculus-Based Physics II	4	PHY*H221		
EGR*H211 Engineering Statics [†]	3	EGR*H111; MAT*H256 (co-req)		
ENG*H202 Technical Writing	3	ENG*H101		
Total	14			

FOURTH SEMESTER

Course	Credits	Pre-requisites	Enrolled	Grade
MAT*H285 Differential Equations	3	≥C in MAT*H268		
EGR*H212 Engineering Dynamics [†]	3	EGR*H211, MAT*H256		
EGR*H214 Engineering Thermodynamics [†]	3	≥C in PHY*H221 & MAT*H254		
ECN*H101 Principles of Macroeconomics	3	none		
ART*H101, H102, MUS*H101 <i>or</i> THR*H101	3	none		
Total	15			
Program Total	63			

[†]Not currently offered at NVCC; Tunxis, Gateway, Housatonic, Norwalk and CCSU offer the courses

Engineering Science Associate of Science Degree - College of Technology Pathway

For Transfer to UConn Mechanical Engineering program

Student Name:

Student ID#: @

FIRST SEMESTER

Course	Credits	Pre-requisites	Enrolled	Grade
MAT*H254 Calculus I	4	≥C in MAT*H185		
EGR*H111 Intro to Engineering [†]	3	MAT*H172		
CHE*H121 General Chemistry I	4	MAT*H172 (co-req)		
ENG*H101 Composition	3	≥C in ENG*H063 or H096		
COM*H173 Public Speaking	3	none		
Total	17			

SECOND SEMESTER

Course	Credits	Pre-requisites	Enrolled	Grade
MAT*H254 Calculus II	4	≥C in MAT*H254		
PHY*H221 Calculus-Based Physics I	4	≥C in MAT*H254		
ENG*H102 Literature and Composition	3	≥C in ENG*H101		
HIS*H101, H102, H201 <i>or</i> H202	3	ENG*H101 eligibility		
PHL*H111 Ethics	3	ENG*H101		
Total	17			

THIRD SEMESTER

Course	Credits	Pre-requisites	Enrolled	Grade
MAT*H268 Calculus III: Multivariable	4	≥C in MAT*H256		
PHY*H222 Calculus-Based Physics II	4	PHY*H221		
EGR*H211 Engineering Statics [†]	3	EGR*H111; MAT*H256 (co-req)		
ECN*H101 Principles of Macroeconomics	3	none		
Total	14			

FOURTH SEMESTER

Course	Credits	Pre-requisites	Enrolled	Grade
MAT*H285 Differential Equations	3	≥C in MAT*H268		
EGR*H212 Engineering Dynamics [†]	3	EGR*H211, MAT*H256		
EGR*H214 Engineering Thermodynamics [†]	3	≥C in PHY*H221 & MAT*H254		
ART*H101, H102, MUS*H101 <i>or</i> THR*H101	3	none		
Directed elective ^{††}	3-4	none		
Total	15-16			
Program Total	63-64			

[†]Not currently offered at NVCC; Tunxis, Gateway, Housatonic, Norwalk and CCSU offer the courses

^{††}Choose from ANT*H101, BIO*H121, CHE*H122, any EGR* course, ENG*H202, GEO*H111, or POL*H103 after consultation with the STEM Division Director

Engineering Science Associate of Science Degree - College of Technology Pathway

For Transfer to UConn Civil Engineering program

Student Name:

Student ID#: @

FIRST SEMESTER

Course	Credits	Pre-requisites	Enrolled	Grade
MAT*H254 Calculus I	4	≥C in MAT*H185		
EGR*H111 Intro to Engineering [†]	3	MAT*H172		
CHE*H121 General Chemistry I	4	MAT*H172 (co-req)		
ENG*H101 Composition	3	≥C in ENG*H063 or H096		
COM*H173 Public Speaking	3	none		
Total	17			

SECOND SEMESTER

Course	Credits	Pre-requisites	Enrolled	Grade
MAT*H254 Calculus II	4	≥C in MAT*H254		
PHY*H221 Calculus-Based Physics I	4	≥C in MAT*H254		
CHE*H122 General Chemistry II	4	≥C in CHE*H121		
ENG*H102 Literature and Composition	3	≥C in ENG*H101		
Total	15			

THIRD SEMESTER

Course	Credits	Pre-requisites	Enrolled	Grade
MAT*H268 Calculus III: Multivariable	4	≥C in MAT*H256		
PHY*H222 Calculus-Based Physics II	4	PHY*H221		
EGR*H211 Engineering Statics [†]	3	EGR*H111; MAT*H256 (co-req)		
ECN*H101 Principles of Macroeconomics	3	none		
PHL*H111 Ethics	3	ENG*H101		
Total	17			

FOURTH SEMESTER

Course	Credits	Pre-requisites	Enrolled	Grade
MAT*H285 Differential Equations	3	≥C in MAT*H268		
EGR*H212 Engineering Dynamics [†]	3	EGR*H211, MAT*H256		
HIS*H101, H102, H201 <i>or</i> H202	3	ENG*H101 eligibility		
ART*H101, H102, MUS*H101 <i>or</i> THR*H101	3	none		
Directed elective ^{††}	3-4	none		
Total	15-16			
Program Total	64-65			

[†]Not currently offered at NVCC; Tunxis, Gateway, Housatonic, Norwalk and CCSU offer the courses

^{††}Choose from ANT*H101, BIO*H121, any EGR* course, ENG*H202, GEO*H111, or POL*H103 after consultation with the STEM Division Director