

**Program Map: Associate of Science – Core Curriculum
Engineering Technology Department, College of Science and Technology**

Name:

SID:

Advisor:

Start Date:

Catalog Date:

Expected Graduation Date:

Freshman	Fall Courses			Spring Courses			Notes
	Course	Name	Hours	Course	Name	Hours	
	ENGL 1101 Core Area C	Composition I Pre-requisite: None	3	ENGL 1102 Core Area C	Composition II Pre-requisite: ENGL 1101	3	*Note Core Area T Lab Science courses must be taken in sequence, i.e., if you take BIOL 1107 & 1107L as the first Core Area T course, you must take BIOL 1108 & 1108L next. Accumulate minimum of 30 semester hours in your Freshmen Year.
	MATH 1113* Core Area M	Pre-Calculus Pre-requisite: MATH 1111	3	Field of Study Area	STEM Course 1 Pre-requisite: Varies	3	
	COST 1103 Field of Study Area	COST First Year Experience Pre-requisite: None	2	HUMN 1201 Core Area I	Critical Thinking & Communicating Pre-requisite: None	3	
	Core Area A Option	Pre-requisite: Varies	3	POLS 1101 Core Area P	American Government Pre-requisite: None	3	
	Core Area T (non-Lab) Option	Pre-requisite: Varies	3	Core Area T Lab Option	Pre-requisite: Varies	4	
Fall Milestones			Total	Spring Milestones		Total	
			14	STEM Course 1: Select a course from any STEM pathway program.		16	

*A grade of C or better must be earned for this course

Sophomore	Fall Courses			Spring Courses			Notes
	Course	Name	Hours	Course	Name	Hours	
	Core Area A Option	Pre-requisite: Varies	3	Core Area S Social Sci. Option	Pre-requisite: Varies	3	Credit Hours required to Graduate: 60 You must take 17 semester hours in STEM areas with appropriate pre-requisites to fulfil the requirements of AS-Core Curriculum
	Core Area T Lab Option	Pre-requisite: Varies	4	HIST 2111 or 2112 Core Area P	U.S. History Pre-requisite: None	3	
	Core Area P	Pre-requisite: None	3	Field of Study Area	STEM Course 3 Pre-requisite: Varies	4	
	AFRS 1501 Core Area I	Survey African American History Pre-requisite: None	2	Field of Study Area	STEM Course 4 Pre-requisite: Varies	4	
	Field of Study Area	STEM Course 2	4				
Fall Milestones			Total	Spring Milestones		Total	
Pre-requisite for the second core area T course is the first course in sequence.			16			14	

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Engineering Technology Department, College of Science and Technology

Core Curriculum (Programmed Preferred Options in Bold)

Area I – Institutional Priority 5 hrs.

AFRS 1501 Survey of African-American Experience 2 hrs.

Select one of the following:

- i. DATA 1501 Introduction to Data Science 3 hrs.
- ii. POLS 2401 Global Issues 3 hrs.
- iii. HUMN 1201 Critical Thinking & Communication 3 hrs.
- iv. AFRS 2000 Introduction to Africana Studies 3 hrs.

Area M – Mathematics and Quantitative Skills 3 hrs.

- i. MATH 1001 Quantitative Reasoning 3 hrs.
- ii. MATH 1111 College Algebra 3 hrs.
- iii. MATH 1401 Elementary Statistics 3 hrs.
- iv. **MATH 1113 Pre-Calculus 3 hrs.**

Area P – Social Science and U.S. History 6 hrs.

POLS 1101 American Government 3 hrs.

Select one of the following:

- i. HIST 2111 U.S. History to the Post-Civil War Period 3 hrs.
- ii. HIST 2112 U.S. History from the Post-Civil War to Pre 3 hrs.

Area A – Arts, Humanities, and Ethics 6 hrs.

Select two of the following:

- i. ENGL 2111 World Literature I 3 hrs.
- ii. ENGL 2112 World Literature II 3 hrs.
- iii. ENGL 2121 British Literature I 3 hrs.
- iv. ENGL 2122 British Literature II 3 hrs.
- v. ENGL 2131 American Literature I 3 hrs.
- vi. ENGL 2132 American Literature II 3 hrs.
- vii. ENGL 2140 Introduction to African American Literature 3 hrs.
- viii. ENGL 2521 Introduction to Film 3 hrs.
- ix. ARTS 1101 Introduction to Visual Art 3 hrs.
- x. HUMN 2011 Humanities 3 hrs.
- xi. MUSC 1101 Introduction to Music 3 hrs.
- xii. THEA 2101 Introduction to Theatre 3 hrs.
- xiii. DNCE 2010 Dance Appreciation 3 hrs.
- xiv. PHIL 2010 Introduction to Philosophy 3 hrs.
- xv. PHIL 2030 Introduction to Ethics 3 hrs.

Area C – Communications in Writing 6 hrs.

- i. ENGL 1101 English Composition I 3 hrs.
- ii. ENGL 1102 English Composition II 3 hrs.

Area T – Technology, Mathematics and Sciences 11 hrs.

1. Select one of the following:

- i. **CSCI 1130 Computer and its Applications 3 hrs.**
- ii. CSCI 1301 Computer Science I 3 hrs.
- iii. CILS 1130 Introduction to Computer Applications 3 hrs.
- iv. ASTR 1000 Introduction to the Universe 3 hrs.
- v. ISCI 1101 Integrated Science I 3 hrs.
- vi. BIOL 1103 General Biology 3 hrs.
- vii. BIOL 1104 Human Biology 3 hrs.
- viii. DATA 1501 Introduction to Data Science 3 hrs.
- ix. ENVS 1140 Environmental Issues 3 hrs.
- x. FSCI 1101 Introduction to Molecular Forensic Science 3 hrs.
- xi. MATH 1111 College Algebra 3 hrs.
- xii. MATH 1401 Elementary Statistics 3 hrs.
- xiii. MATH 1113 Pre-Calculus 3 hrs.

2. Select two of the following lab sciences:

- i. BIOL 1103/1103L General Biology 4 hrs.
- ii. BIOL 1104/1104L Human Biology 4 hrs.
- iii. CHEM 1101K Introductory Chemistry 4 hrs.
- iv. ISCI 1111K Integrated Science II 3 hrs.
- v. MSCI 1501K Introduction to Marine Biology 4 hrs.
- vi. PHSC 1011K Physical Science I 4 hrs.
- vii. PHSC 1012K Physical Science II 4 hrs.
- viii. **PHYS 1111K Introductory Physics I 4 hrs.**
- ix. **PHYS 1112K Introductory Physics II 4 hrs.**
- x. **PHYS 2211K Principles of Physics I 4 hrs.**

- xi. **PHYS 2212K Principles of Physics II 4 hrs.**
- xii. BIOL 1107/1107L Principles of Biology I 4 hrs.
- xiii. BIOL 1108/1108L Principles of Biology II 4 hrs.
- xiv. CHEM 1211/1211L Principles of Chemistry 4 hrs.
- xv. CHEM 1212/1212L Principles of Chemistry 4 hrs.

Area S – Social Sciences 6 hrs.

Select two of the following:

- i. AFRS 2000 Introduction to Africana Studies 3 hrs.
- ii. ANTH 1101 Introduction to Anthropology 3 hrs.
- iii. ECON 2105 Principles of Macro-Economics 3 hrs.
- iv. GEOG 1101 Introduction to Human Geography 3 hrs.
- v. HIST 1111 World Hist to Early Modern Times 3 hrs.
- vi. HIST 1112 World History Early Modern Times to Pres 3 hrs.
- vii. POLS 2401 Global Issues 3 hrs.
- viii. PSYC 1101 Introduction to General Psychology 3 hrs.
- ix. PSYC 2103 Human Growth & Development 3 hrs.
- x. SOCI 1101 Introduction to Sociology 3 hrs.
- xi. SOCI 1160 Social Problems 3 hrs.

Honor Sections Available:

AFRS 1501	2hrs
ENGL 1101, 1102	3hrs
FSCI 1101	3hrs
HIST 2112	3hrs
HUMN 1201	3hrs
MATH 1001, 1111, 1113	3hrs
PHIL 2030	3hrs
POLS 1101, 2401	3hrs

For REP Students

Civil Engineering

MATH 2101 Calculus I	4hrs
MATH 2111 Calculus II	4hrs
CSCI 1371 Computing for Engineers and Scientists	3hrs
PHYS 2211K Principles of Physics I	4hrs
PHYS 2212K Principles of Physics II	4hrs
MATH 2121 Calculus III	4hrs
MATH 3101 Linear Algebra	3hrs
MATH 3301 Differential Equations	4hrs
ENGR 2201 Statics for Engineers	3hrs
ENGR 2202 Dynamics for Rigid Bodies	3hrs
ENGR 2770 Introduction to Engineering and Graphics	3hrs

Electrical Engineering

MATH 2101 Calculus I	4hrs
MATH 2111 Calculus II	4hrs
CSCI 1371 Computing for Engineers and Scientists	3hrs
PHYS 2211K Principles of Physics I	4hrs
PHYS 2212K Principles of Physics II	4hrs
MATH 2121 Calculus III	4hrs
MATH 3101 Linear Algebra	3hrs
MATH 3301 Differential Equations	4hrs
ENGR 2040 Circuit Analysis	3hrs
ENGR 2030 Introduction to Computer Engineering	3hrs
ENGR 2770 Introduction to Engineering and Graphics	3hrs

Mechanical Engineering

MATH 2101 Calculus I	4hrs
MATH 2111 Calculus II	4hrs
CSCI 1371 Computing for Engineers and Scientists	3hrs
PHYS 2211K Principles of Physics I	4hrs
PHYS 2212K Principles of Physics II	4hrs
MATH 2121 Calculus III	4hrs
MATH 3101 Linear Algebra	3hrs
MATH 3301 Differential Equations	4hrs
ENGR 2201 Statics for Engineers	3hrs
ENGR 2202 Dynamics for Rigid Bodies	3hrs
ENGR 2770 Introduction to Engineering and Graphics	3hrs

Computer Engineering

MATH 2101 Calculus I	4hrs
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MATH 2111 Calculus II	4hrs
CSCI 1371 Computing for Engineers and Scientists	3hrs
PHYS 2211K Principles of Physics I	4hrs
PHYS 2212K Principles of Physics II	4hrs
MATH 2121 Calculus III	4hrs
MATH 3101 Linear Algebra	3hrs
MATH 3301 Differential Equations	4hrs
ENGR 2770 Introduction to Engineering and Graphics	3hrs

Industrial Engineering

MATH 2101 Calculus I	4hrs
MATH 2111 Calculus II	4hrs
CSCI 1371 Computing for Engineers and Scientists	3hrs
PHYS 2211K Principles of Physics I	4hrs
PHYS 2212K Principles of Physics II	4hrs
MATH 2121 Calculus III	4hrs
MATH 3101 Linear Algebra	3hrs
MATH 3301 Differential Equations	4hrs
ENGR 2770 Introduction to Engineering and Graphics	3hrs