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

Sophomore

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

Core Curriculum

Area B – Institutional Options 5 hrs
    i.   AFRS 1501 Survey of African-American Experience 2 hrs
    ii.   HUMN 1201 Critical Thinking & Communication 3 hrs
Area C – Humanities/Fine Arts, and Ethics 6 hrs,
    1.   Select one 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 2222 African American Literature 3 hrs
        viii.   PHIL 2010 Introduction to Philosophy 3 hrs
        ix.   PHIL 2030 Introduction to Ethics 3 hrs
    2.   Select one of the following:
        i.   ARTS 1101 Introduction to Visual Art 3 hrs
        ii.   DNCE 2010 Dance Appreciation 3 hrs
        iii.   ENGL 2521 Introduction to Film 3 hrs
        iv.   HUMN 2011 Humanities 3 hrs
        v.   MUSC 1101 Introduction to Music 3 hrs
        vi.   THEA 2101 Introduction to Theatre 3 hrs
Area D – Natural Sciences, Math & Technology 10 hrs
    1.   Select one of the following:
        i.   BIOL 1107 Principles of Biology I 3 hrs
        ii.   BIOL 1108 Principles of Biology II 3 hrs
        iii.   CHEM 1211 Principles of Chemistry I 3 hrs
        iv.   CHEM 1212 Principles of Chemistry II 3 hrs
        v.   CISM 1130 Computer Applications 3 hrs
        vi.   CSCI 1130 Computer Applications 3 hrs
        vii.   CSCI 1301 Computer Science I 3 hrs
        viii.   ENVS 1140 Environmental Issues 3 hrs
    2.   Select two of the following lab sciences:
        i.   BIOL 1107/1107L Principles of Biology I 4 hrs
        ii.   BIOL 1108/1108L Principles of Biology II 4 hrs
        iii.   CHEM 1211/1211L Principles of Chemistry 4 hrs
        iv.   CHEM 1212/1212L Principles of Chemistry 4 hrs
        v.   PHYS 1111K Introductory Physics I 4 hrs
        vi.   PHYS 1112K Introductory Physics II 4 hrs
        vii.   PHYS 2211K Principles of Physics I 4 hrs
        viii.   PHYS 2212K Principles of Physics II 4 hrs
Area E – Social Science 12 hrs
        i.   POLS 1101 American Government 3 hrs
    2.   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
    3.   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 Intro 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
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