

Applied Technology A.A.S.**

— Math Suggested Plan of Study

**When a student graduates with this degree the diploma will read A.A.S. in "Applied Technology". The general education courses within this sequence will easily transfer into a four year degree program within the State of Oklahoma.

Program Description

This degree is designed for students who want the Associate in Applied Science degree but whose previously earned college credit, goals or backgrounds are not supported by other A.A.S. programs. Also, students not yet certain of their major can pursue the Associate in Applied Science degree, obtain core general education credits and pick up basic skills required for most professional careers today. Students graduate with 21 hours of general education courses, 12 hours of guided electives and 30 hours of technical occupational specialty core courses.

Degree Awarded

Associate in Applied Science

For More Information Contact:

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 Fax: 405-945-9141
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Technical Occupational Specialty

This plan of study requires the following courses plus 11 credit hours of electives in the areas specified below.

<input type="checkbox"/>	MATH	1613	Trigonometry
<input type="checkbox"/>	MATH	2145	Calculus I
<input type="checkbox"/>	MATH	2155	Calculus II
<input type="checkbox"/>	MATH	2233	Differential Equations
<input type="checkbox"/>	STAT	2013	Elementary Statistics

TECHNICAL OCCUPATIONAL ELECTIVES

Electives must be chosen from Economics, Physics, Computer Science, Math, or Engineering courses or in consultation with the Math Department.
 (Note: Technical Calculus and Elementary Calculus cannot be counted without prior approval.)

<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

30 Credit Hours

Date	Institution

Guided Electives

<input type="checkbox"/>	CIS	1113	Computer Concepts with Applications
<input type="checkbox"/>	Any college level science course with lab		
<input type="checkbox"/>	Any college level humanities course		
<input type="checkbox"/>	SPCH	1113	
<input type="checkbox"/>	Other courses may be substituted with departmental approval.		

12 Credit Hours

General Education Courses

<input type="checkbox"/>	ENGL	1113	English Composition I
	ENGL	1213	English Composition II
<input type="checkbox"/>	OR		
	ENGL	2333	Introduction to Technical Report Writing
	HIST	1483	U.S. History to 1865
<input type="checkbox"/>	OR		
	HIST	1493	U.S. History Since 1865
<input type="checkbox"/>	MATH	1513	College Algebra
<input type="checkbox"/>	POLS	1113	American Government
<input type="checkbox"/>	PSYC	1113	Introductory Psychology
<input type="checkbox"/>	SOC	1113	Introductory Sociology

21 Credit Hours

Total to Graduate

63 Credit Hours

Student Name:	_____
CWID:	_____
Counselor:	_____
Catalog 2011-2012	

APPLIED TECHNOLOGY AAS-MATH/PHYSICS PLAN OF STUDY COURSE DESCRIPTIONS

***CIS 1113 COMPUTER CONCEPTS WITH APPLICATIONS**

Provides students with an introduction to concepts and applications of the personal computer in business. Topics include spreadsheets, databases, word processing, ethics, vocabulary, Internet skills and file system management. Theory and hands-on computer instruction is included. This introductory course is intended for students with existing computer skills. Prerequisite: READ 0033 or [R].

ECON 2013 INTRODUCTION TO MACROECONOMICS

A study of the functioning and current problems of the aggregate economy; determination and analysis of rational income, employment, inflation and stabilization monetary and fiscal policy and aspects of international interdependence. Prerequisite: math proficiency is suggested.

ECON 2023 INTRODUCTION TO MICROECONOMICS

A study of the functioning of the price system; the analysis of market structures; the issues of government policy, the public sector and the market economy; the understanding of resource markets; and an examination of international economic interdependence. Prerequisite: math proficiency is suggested.

MATH 1613 TRIGONOMETRY (A)

Trigonometric functions, solution of right and oblique triangles and applications to engineering. Prerequisite: MATH 1513 or concurrent enrollment.

MATH 2145 CALCULUS I (A)

Introduction to derivatives, integrals and their applications, including introductory analytic geometry. Prerequisites: MATH1513 and MATH 1613.

MATH 2155 CALCULUS II (A)

A continuation of MATH 2145, including multivariate calculus and series with applications.

MATH 2233 DIFFERENTIAL EQUATIONS (A)

Methods of solution of ordinary differential equations with applications. First order equations, linear equations of high order, series solutions, Laplace Transform theory. Prerequisite: MATH 2155.

PHYS 2014 PHYSICS I (ENGINEERING) (L, N)

Calculus-based introductory course for science, math and engineering majors. Mechanics, waves, heat and thermodynamics. Prerequisite: [Sci] MATH 2145.

PHYS 2114 PHYSICS II (ENGINEERING) (L, N)

Continuation of PHYS 2014: electricity, magnetism and optics. Prerequisite: PHYS 2014.

SPCH 1113 INTRODUCTION TO SPEECH COMMUNICATION (S)

Principles and techniques of preparation, participation in and evaluation of communication behavior in conversation, the interview, group discussion and public speech. A competency-based approach. Prerequisites: [R] [W]

STAT 2013 ELEMENTARY STATISTICS (A)

Introduction to the theory and methods of statistics. Descriptive measures, elementary probability, samplings, estimation, hypothesis testing, correlation and regression. Prerequisite: MATH 1513 or equivalent [R].