

# WHAT MATH COURSE SHOULD I TAKE?

Search through this list of Math courses and how they apply towards Educational and Career Pathways.

Courses intended for Programs to Transfer to another school or program,  
or WWCC's Bachelor of Applied Science degrees:

## **MATH&107 -MATH IN SOCIETY**

Emphasizes mathematical reasoning, mathematical habits of thought, mathematical decision-making, mathematical communication, and the use of mathematical symbols, techniques and computations. Topics include proportional reasoning, mathematics of personal finance, probability, descriptive statistics, and growth and decay models (linear and exponential).

- Art
- English / Literature
- Communications (Or Statistics)
- Philosophy
- Physical Education / Recreation
- Spanish

## **MATH&131 & MATH&132 – MATH FOR ELEMENTARY EDUCATION I AND II**

A two-course sequence designed to give prospective elementary education majors the depth of understanding necessary to teach mathematics in the elementary classroom. Designed for elementary school teachers focusing on methods of problem-solving, development and structure of number systems, and numerical algorithms applicable to elementary school mathematics.

- Early Childhood Education – Student may opt to take MATH&107
- Elementary Education

## **MATH&141 – PRECALCULUS I**

The first in a series of two courses designed to give students an in-depth understanding of functions and to prepare students for calculus. Graphical analysis of concepts is emphasized through the use of technology.

### MATH&148 also required

- Agricultural Business
- Business-*includes Accounting, Economics, Business Mgmt, etc.*

### MATH&142-PreCalculus II also required

- Animal Science-PreVeterinary Sciences & Animal Mgmt
- Environmental & Ecosystem Sciences
- Forestry
- Wildlife Ecology & Conservation Sciences

### Only MATH&141-PreCalculus required

- Plant and Soil Science
- Veterinary Technology-*Math requirements may vary from school to school. Consult with an advisor prior to enrolling in a Math class*

## **MATH&146 – STATISTICS**

Study of both descriptive and inferential statistics. Topics include data presentation and analysis, measures of central tendency and dispersion, sampling distributions, parameter estimation, hypothesis testing, and linear regression.

- Ag Science & Technology-Organic Agriculture
- Agricultural Education
- Agricultural Systems ( Bachelor of Applied Science)
- Agricultural Technology and Production Management
- Applied Management & Entrepreneurship ( Bachelor of Applied Science)
- Communications
- Criminal Justice (includes Bachelor of Applied Science concentration)
- Dental Hygiene
- History
- Human and Social Services
- Integrated Agricultural Systems
- Medical Laboratory Technology
- Nursing (Registered Nurse)
- Nutrition
- Occupational Therapy Technology
- Paramedicine
- Pharmacy Technology
- Physical Therapy Assistance
- Political Science
- Psychology
- Radiology Technology
- Social Work
- Sociology
- Speech Therapy / Communication Disorders
- Surgical Technology
- Ultrasound Diagnostic Technology

## **MATH&151 – CALCULUS I**

The first in a sequence of four calculus courses for students who are planning to major in engineering, mathematics, or the sciences. Graphical analysis of concepts is emphasized through the use of technology.

- *Calculus I requires both MATH&141 and 142-PreCalculus I and II as prerequisites if student does not place directly into Calculus I. Most pathways include Calculus II and III.*
- Ag Science & Technology-Food Science
- Astronomy
- Biology
- Chemistry
- Computer Science
- Earth Science
- Engineering
- Geology
- Math
- Physics

Courses intended for Programs intended to not for Transfer,  
but preparation to directly enter the Workforce upon completion.  
These programs result in an Associates in Applied Sciences (AAS) degree or a certificate\*.

## **AMATH105 – INTRODUCTION TO QUANTITATIVE PROBLEM SOLVING FOR THE TRADES**

An introductory course in problem-solving for vocational and technical programs that uses basic computation (both without and with a calculator), pre-algebra, and introductory algebra and geometry skills. Course includes guided and independent practical problem solving, contextualized small-group classroom activities and open-ended projects. A prescribed problem-solving structure will be followed.

- Agricultural Business
- Animal Science
- Automotive Repair Technology
- Computer Science – Software or Data Center Tech
- Criminal Justice
- Diesel Technology
- Early Childhood Education
- Enology and Viticulture
- Human and Social Services
- Industrial Mechanics
- Irrigation Business Management
- John Deere Technology
- Plant and Soil Science
- Turf Management
- Welding

## **AMATH106-QUANTITATIVE PROBLEM SOLVING FOR THE TRADES I**

A course in problem solving for vocational and technical programs that uses basic pre-algebra, algebra, and geometry skills. Course includes guided and independent practical problem solving, contextualized small-group classroom activities and open-ended projects. A prescribed problem-solving structure will be followed.

- Energy Systems Technology

## **BUS112-BUSINESS MATHEMATICS**

Develops competency in common business calculations for use in financial decision-making including: percentages, trade and cash discounts, pricing, simple and compound interest, discounting, annuities, and sinking funds. Calculations performed on calculator and formulas developed for use in spreadsheet software.

- Accounting Technology and Accounting Assistant
- Administrative Office Professional
- Business Administration
- Cosmetology
- Culinary Arts
- eMarketing
- Health Information Technology and Medical Billing & Coding Specialist

\*Please note other courses may be substituted to satisfy the Math requirement for some Workforce degrees.