

Recommendation for Senior Year Math Courses & Choice of Major

This is a recommendation for placement into a senior level math course for juniors who are college bound based on the 2020-2021 USU Catalog. If a degree is listed in one of the categories below, that indicates that course is either the final quantitative literacy credit that is needed for graduation with a Bachelor’s degree or is a prerequisite for further courses in that particular field (for example, Calculus is not a terminal course for Math Education, but is the most “advanced” of the courses listed here that are offered at the high school and is needed for that degree). **For both Math 1050 and Statistics 1040, USU has prerequisites for the courses, and the link to those prerequisites is listed below.**

<http://catalog.usu.edu/content.php?catoid=12&navoid=3593>

- For **any student that is undecided on their major but has intentions of attending college, AP Calculus is the recommendation** with a score of 23 or higher on the Math portion of the ACT **or STAT 1040** in all other instances.
- One important item of interest: **If a student earns a 26 on the math portion of the ACT, the Quantitative Literacy (QL) requirement for graduation at USU has been satisfied,** and for most majors, STAT 1040 and MATH 1050 are no longer required courses to take in order to meet the general education requirement.
- One last important piece of information: If a student is interested in becoming an Elementary or Special Education Teacher, their choice for a Math class should be Math 1051, which we do not offer concurrently.
- **For students that are not attending college, Math of Personal Finance or PreCalculus should be the course of choice,** at the discretion of the student’s Math teacher and their advisement.

Here at Box Elder, each of the following courses will be offered over the following time lengths in trimesters as well as how many college credits **CAN** be earned. A student should complete Math 1, 2, and 3 before these classes:

Course	# of Trimesters	College Credits
AP Calculus AB	<u>3</u> trimesters	Equivalent of 10 credits (have to pass the AP test – get credit for Math 1050, Math 1060, and Calculus 1) and placement into either Calculus 1 or 2
AP Calculus BC	<u>1</u> additional trimester (in addition to what is listed for AP Calculus AB)	Equivalent of 14 credits (have to pass the AP test with a 5, get credit for Math 1050, Math 1060, Calculus 1, and Calculus 2) and placement as such Note: This course requires teacher approval during the students senior year
STAT 1040	<u>1</u> trimester	3 credits; meets general requirements for Quantitative Literacy
MATH 1050	<u>1</u> trimester	4 credits; meets general requirements for Quantitative Literacy
Precalculus	<u>2</u> trimesters	0 credits; used to prepare students for college level math that require a bit more exposure to math
Math of Personal Finance	<u>2</u> trimesters	0 credits; used to prepare students for math they will encounter in financial situations AND are not planning on attending college

AP Calculus

ACT score of 26 or higher

OR

ACT score of 23 or higher AND majoring in one of the following:

Aerospace Engineering

Agribusiness

Applied Economics

Biochemistry

Biological Science—Composite Teaching

Biology (Biology, Cellular/Molecular, Ecology, Biodiversity, Environmental, Human Biology, Biological Engineering)

Chemistry (Professional Chemistry, Biochemistry, Environmental Chemistry, Chemical Education, Life Science)

Chemistry Teaching

Civil Engineering

Climate Science

Climate Science

Computer Engineering

Computer Science

Conservation and Restoration Ecology (also requires STAT)

Earth Science (Composite Teaching)

Economics

Electrical Engineering

Environmental and Natural Resource Economics

Environmental Engineering

Environmental Soil Science

Fisheries and Aquatic Science

Food Science

Forest Ecology and Management

Geographical Analysis and Bioregional Planning

Geology

Human Movement Science (will accept any of the three as a terminal course)—Exercise Science, P.E. Teaching, Pre-Physical Therapy

International Agribusiness

Management and Restoration of Aquatic Ecosystems

Mathematics (computational science, actuarial science)

Mathematics Education

Mathematics/Statistics Composite

Mechanical Engineering

Nutrition Science

Physical Geography

Physical Science Composite Teaching (Chemistry and Physics)

Physics (applied and professional)

Physics Teaching

Plant Science (or 1050)

Public Health (Environmental Health, Industrial Hygiene, Public Health Education)

Rangeland Ecology and Management (includes Statistics courses as well)

Soils and Sustainable Land Systems (also requires a statistics course)

Statistics (actuarial science)

Wildlife Ecology and Management

STAT 1040

Sufficient Math placement score on the ALEKS test

OR

ACT score of 17-22 AND majoring in one of the following:

Agriculture Communication and Journalism

American Studies

Animal, Dairy and Veterinary Sciences (requires both 1050 and 1040, recommended STAT 1040 first)

Anthropology

Art (*Art Education, Art History, Ceramics, Drawing and Painting, Graphic Design, Photography, Printmaking, Sculpting*)

Art History

Asian Studies

Broadcast Media

Child Development

Climate Science

Communication Studies

Communicative Disorders and Deaf Education

Community Health

Creating Writing

Dietetics (need both 1040 and 1050)

English (*Creative Writing, Literary Studies, Professional and Technical Writing*)

English Teaching

Environmental Studies

Family and Community Services

Family Consumer and Human Development

Family Life Studies

French and French Teaching

Geography

Geography (*Geographic Information and Human Environment*)

German and German Teaching

Global Communication

Health Education and Promotion (*Community Health and Health Science*)

History

History Teaching

Human Experience Design and Interaction

Interior Design

International Studies

Journalism

Kinesiology

Law and Constitutional Studies

Liberal Arts

Liberal Arts

Literary Studies

Music (*performance and education*)

Music Therapy

Music Therapy

Nursing

Outdoor Product Design and Development

Parks and recreation

Philosophy (BA or BS)

Political Science

STAT 1040 Continued

Portuguese
PR/Corporate Communication
Print Journalism
Professional And Technical Writing
Psychology
Recreation Administration
Recreation Resource Management
Religious Studies
Social Studies Composite Teaching (can be either)
Social Work
Sociology
Spanish and Spanish Teaching
Special Education (all Levels)
Technology Systems
Theater Arts (Acting, Theater Design and Technology, Theater Education)

MATH 1050

ACT Score of 23-25

OR

ACT score of 23 or higher AND majoring in one of the following:

Accounting
Agricultural Economics
Agricultural Systems Technology
Animal, Dairy and Veterinary Sciences (requires both 1050 and 1040, recommended STAT 1040 first)
Aviation Technology (must take 1060 as well)
Business Administration
Business Education
Climate Science
Early Childhood Education (only 1050 required, 1051 also offered for teachers)
Elementary Education and Special Education (same as Early Childhood)
Family and Consumer Sciences Education
Finance
Horticulture
International Business (also will require a Statistics course)
Land Plant and Climate Systems
Landscape Architecture
Management Information Systems (additional Statistics classes required)
Marketing (additional statistics classes required)
Residential Landscape and Design
Special Education (all Levels) (1051 offered and recommended for teachers)
Technology and Engineering Education (also requires 1060)