



orientation

**MONTANA  
STATE UNIVERSITY**

— BOZEMAN · MONTANA —

# Microbiology and Cell Biology and Biotechnology





# About us:

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# Microbiology and Cell Biology and Biotechnology Majors/Options

- Microbiology
  - Microbiology
  - Pre-Medical
  - Pre-Veterinary
  - Environmental Health
  - Environmental Microbiology
  - Medical Lab Science
- Cell Biology
  - Cell Biology and Neuroscience
  - Biomedical Sciences
- Biotechnology
  - Microbial Systems
  - Animal Systems
  - Plant Systems



# Health Professions Advising (HPA)

## Interested in a pre-health pathway?

- pre-med
- pre-dentistry
- pre-Optometry
- pre-PA
- pre-PT
- pre-OT
- pre-Chiro
- pre-AT

**Consider attending their session today at 4pm in NAH 165**



**Which classes should I  
take my first semester?**



# Writing

- If you have AP/Dual Enrollment/Running Start/IB credits, please hold off on taking WRIT in the Fall
- If you are exempt from W Core, you may still need to take a writing course for your major; please check with your advisor

## Level 100

ACT English Language :0-15  
ACT Combined English/Writing: 0-15  
ACT Writing Subject: 3-4  
ACT Writing Subscore: 3-4  
ACT English 0-15  
SAT Writing/Language: 10-18  
Qualtrics Survey : 0-37 pts

**WRIT 080**

## Level 200

ACT English Language: 16-17  
ACT Combined English/Writing: 16-17  
ACT Writing Subject: 5-6  
ACT Writing Subscore: 5-6  
ACT English: 16-21  
SAT Writing/Language: 19-24  
Qualtrics Survey: 38-73 pts

**WRIT 001/WRIT 101W**

## Level 300

ACT English Language: 18+  
ACT Combined English/Writing: 18+  
ACT Writing Subject : 7-10  
ACT Writing Subscore: 7-10  
ACT English: 22-27  
SAT Writing/Language: 25-37  
Qualtrics Survey: 74-111 pts

**WRIT 101W**

## Level 400

ACT Writing Subject: 11+  
ACT Subscore Writing: 11+  
ACT English: 28+  
SAT Reading/Writing: 750+  
SAT Writing/Language: 38+  
SAT Essay Total: 22+  
SAT Essay Writing: 7+  
AP English Lang/Comp: 4  
IB English A: Lang & Lit HL: 3  
HS GPA 3.9 or higher

**Exempt from W Core**



# US Core

- US core classes are not limited to US 101US
- Other US core classes include CLS 101US – Knowledge and Community, HLD 121US – Leadership Foundations, LS 101ISUS – Interdisciplinary Ways of Knowing, COMX 111US – Public Speaking
  - If you are in the Honors college, you will want to register for HONR 201US – Texts and Critics. You will learn more during Honors College Advising.
- Please remember to only register for W or US core, NOT both for the Fall.



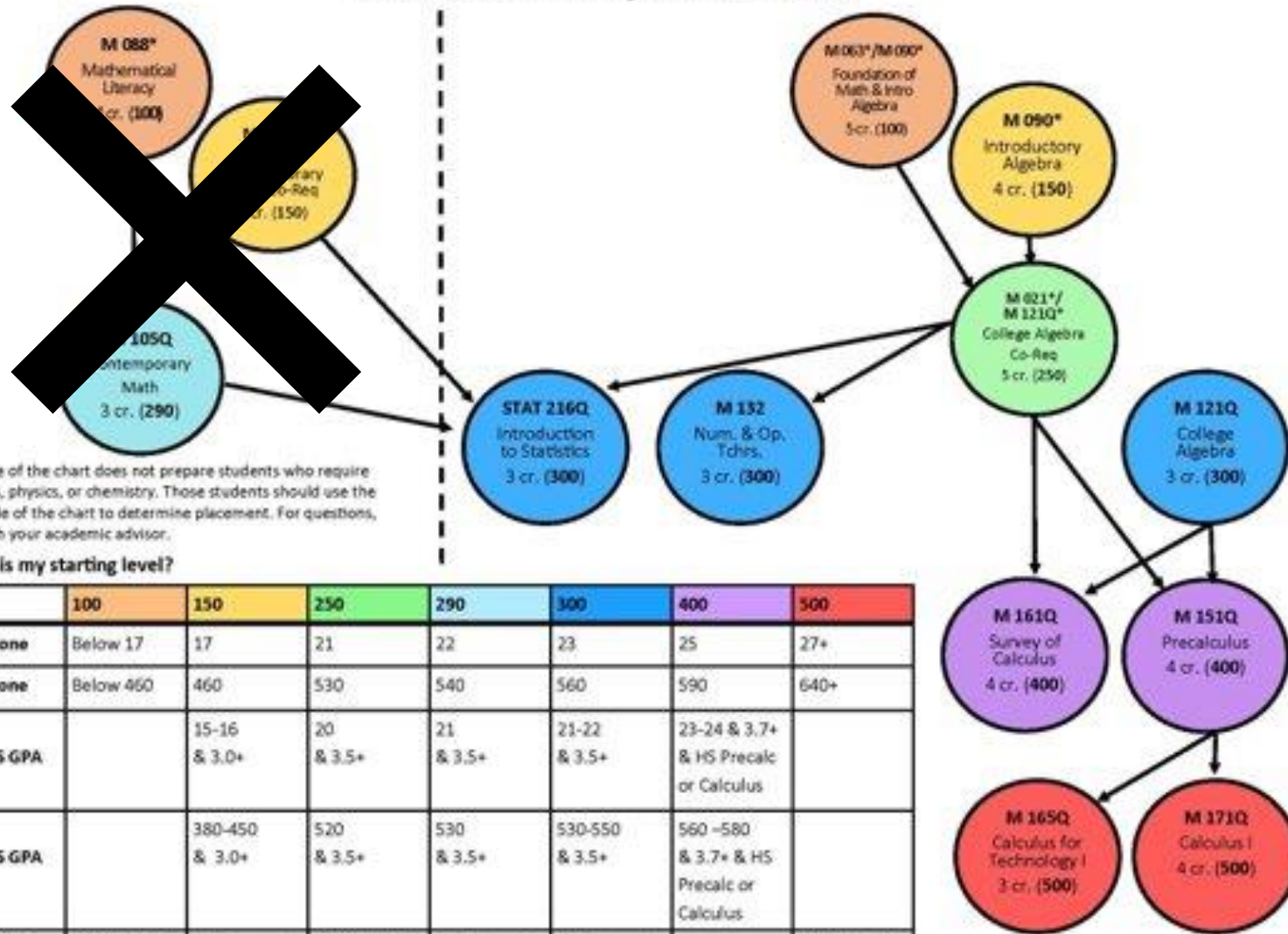


# Math

Art, Humanities, & Some Social Sciences

## Mathematics Prerequisite Flowchart

STEM, Business, Health, & Some Social Sciences



This side of the chart does not prepare students who require calculus, physics, or chemistry. Those students should use the right side of the chart to determine placement. For questions, talk with your academic advisor.

What is my starting level?

	100	150	250	290	300	400	500
<b>ACT alone</b>	Below 17	17	21	22	23	25	27+
<b>SAT alone</b>	Below 460	460	530	540	560	590	640+
<b>ACT and HS GPA</b>		15-16 & 3.0+	20 & 3.5+	21 & 3.5+	21-22 & 3.5+	23-24 & 3.7+ & HS Precalc or Calculus	
<b>SAT and HS GPA</b>		380-450 & 3.0+	520 & 3.5+	530 & 3.5+	530-550 & 3.5+	560-580 & 3.7+ & HS Precalc or Calculus	
<b>MPLEX or EdReady Placement</b>	See Placement Tab in DegreeWorks	See Placement Tab in DegreeWorks	See Placement Tab in DegreeWorks	See Placement Tab in DegreeWorks	See Placement Tab in DegreeWorks	See Placement Tab in DegreeWorks	See Placement Tab in DegreeWorks

\* Indicates the class is being taught through Gallatin College

Revised: 6/11/2022





# Math

- If you are unhappy with your math placement from test scores, please take the EdReady Initial math placement assessment.
  - There is an opportunity to take the assessment today between 9am and 12:30pm in Roberts Hall or on your own time after Orientation. You can study-up on EdReady until August 13th. The earlier the better.
- The math placement on your RAWR does not specify which math you need for your major. Please use the handouts to determine what math course you should register for.
- If you are waiting for AP test scores, please register for the math course you have initially placed in. You will have the opportunity to register for a different course once scores have come in.
- If you have dual-enrollment transcripts already received by MSU, but not processed in your math placement, you will have the opportunity during Registration tomorrow to speak with a representative to allow you to register for a higher-level math.



# Need to reach 15 credits or want to explore?

- 1-credit ACT classes such as yoga, circuit training, or bowling
- AGSC 101 – Introduction to Agricultural and Environmental Resources
  - 1 credit, fall-only course
  - Introduction to the different Ag. Departments and some study/college skills
- BIOM 101 – Careers in Microbiology
  - 1 credit, fall-only course
  - Introduction to the educational and career opportunities in medicine, molecular, ecological, and environmental microbiology
- BIOM 103 – Unseen Universe: Microbes
  - 3 credit lecture and lab
  - Beneficial and harmful effects of microorganisms on individual health, public health, food and water quality; are relevant to an informed citizen of the 21st century. Current news topics and historical perspectives are emphasized. Laboratory exercises investigate microbial activity in our everyday world.
- BIOM 250 and 251 – Infectious Diseases
  - 3 credit lecture and 1 credit lab (Lab is optional)
  - Introduces microorganisms and the role of viral, bacterial, fungal, and parasitic infectious agents. Lab teaches practical experience in the growth, ID, and characterization of important pathogens.





# Need to reach 15 credits or want to explore?

- BIOB 100 – Organism Function
  - 3 credits
  - Examine biological origins and diversity of life. Topics include form, function, adaptation, biomes, photosynthesis, nutrition, immunity, biodiversity, and ecological relationships.
- BIOB 105 – Introduction to Biotechnology
  - 3 credit, fall-only course
  - Introduction to biotechnology as a lecture series
- WILD 201 – Introduction to Fish and Wildlife
  - 1 credit, fall-only course
  - Introduction to educational and career pathways within fish and wildlife



# Need to reach 15 credits or want to explore?

- ACT (1 cr) courses such as yoga, circuit training, bowling
- AGSC 101 (1 cr) - Introduction to Agricultural and Env. Resources
- BIOM 101 (1 cr) - Careers in Microbiology
- BIOM 103 (3 cr) - Unseen Universe: Microbes
- BIOM 250 and BIOM 251 - Infectious Diseases and OPTIONAL lab
- BIOB 100 (3 cr) - Organism Function
- BIOB 105 (3 cr) – Introduction to Biotechnology
- WILD 201 (1 cr) - Introduction to Fish and Wildlife





# Before you leave...



- Have all your questions answered
- Choose 2-3 specific CORE courses and/or planned backup classes
- Have your plan checked by an advisor & take a picture
- Return your Academic Planning Worksheet
- Take a treat! You did great!

