

orientation

MONTANA STATE UNIVERSITY

—— ВО**ZEMAN · МО**МТАМА———

Ecology & Earth Sciences

Alex Reynolds & Aisha Garged Academic Advisors



College of Letters and Science

CLS Academic Advising Center Wilson Hall 1-106

Alexandra.reynolds1@montana.edu Aisha.garged@montana.edu

406-994-4254

Advisor Availability Fall 2024

CLS Advising Center Monday- Friday 8:00am – 5:00pm

- By-appointment schedule via navMSU
- Drop-In hours: TBD

Academic Advisors

- Our goal is to assist with...
 - Developing your academic goals
 - Understand curriculum, and policies
 - Academic Planning
 - Build connections with Student Support Resources
 - Clubs, Tutoring, Faculty, Department Opportunities



Student's role in Advising

- Actively participate in advising every semester
- Proactively monitor your academic record in DegreeWorks
- Utilize resources: ask for help, attend instructor office hours, meet with tutors
- Learn and Understand Curriculum Requirements
 - Minimum grade requirements
 - Credits to earn your degree
- Adhere to MSU policies and deadlines
- ASK QUESTIONS!

Fall 2024 Classes – Online Tools

• <u>MyInfo</u>

- Literally where all your IMPORTANT information lives!!
- <u>DegreeWorks</u> (MyInfo > Student Services)
 - Your Degree Auditing Software
- <u>CatCourse</u> (MyInfo > Student Services > Registration)
 - Course Registration Software

- Where do you find your **confirmed final** schedule?
 - "Student Schedule by Day and Time" (MyInfo > Student Services > Registration)

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	NTANA UNIVERSITY Back to MyInfo	Help & FAQ		Print		DegreeW					
d Student ID	I I Name ► ►I Degree	Major Level Classification Attribu	ute Last Audit Last F	Refresh							
-024/911/	Bobcat, Champ The V BS V	Civil Engineering UG Freshman	0//13/2023 0//13	3/2023 at 10:52 pm							
orksheets	lans Notes GPA Calc										
rksheets >	Student View View	Save as PDF Process New Include in-progress cl	classes by Term								
ok Ahead			Montana State Univ	versity Bozeman							
aond	Student View AD647VPK as of 07/13/202	23 at 12:33									
Jena	Student	Bobcat, Champ The		Level	Undergraduate - Semester						
Complete	Confidential Record			Degree	Bachelor of Science						
except for	ID	-02479117		College	College of Engineering	zering					
classes in- progress	Classification	Freshman		Major	Civil Engineering						
Nearly	Advisor	Campeau, Antoni A		Minor							
complete - see advisor	Overall GPA	0.00		More Info	Placement Data						
Not Complete	Registration Hold			Academic Standing							
Prerequisite Required	Registration PIN/Date			Student Phone	(406) 3709709						
Any course	Graduation Application Status										
number	Degree in Bachelor of Science					Catalog Year: 2022-2023					
	Unmet conditions for this set of requirements: A minimum of 30 credits must be taken through MSU-Bozeman, you currently have 1 but need 29 more. 23 of the last 30 credits must be taken through MSU-Bozeman.										
	128 Credits required		Still Needed: 128 credits a	re required. You have 4 credits in-prog	ress or completed. You must successfully com	plete these and at least 124 more credits.					
	42 Upper-Division Credits Required Still Needed: 42 credits of upper-division courses are required. You have 0 credits in-progress or completed You must successfully complete these and at least 42 more upper-division credits.										
	Your Upper Division Credits and/or Total Credits requirement may not be satisfied, even with a Green Checkbox. They display assuming successful completion of your in progress coursework. You can uncheck 'Include in-progress classes' and 'Include preregistered classes' for an accurate representation of your current status. Additionally, if you are repeating a course you should contact the Office of the Registrar to verify your total credits.										
	CODE 2.0										
	Major Requirements		Still Needed: See Major in	Still Needed: See Major in Civil Engineering section							
	Catalog Year: 2022-202										
	University Seminar (US)		Still Needed: 1 Class in @	@ with Attribute US							
	College Writing (W)		Still Needed: 1 Class in @	@ with Attribute W							
	Quantitative Reasoning (Q)		MATH 121Q Algebra I Satisfied by MATH	101 - Algebra I - West High School Tec	TA h Prep	3 2016 Summer					
	Diversity (D)		Still Needed: 1 Class in @	@ with Attribute D							
	Contemp Issues & Inquiry Nat Sci or	Permitted Subs	Still Needed: Choose from	1 of the following:							









Math Placement Level -Math Course

Calculus I	M171Q	Level 250 or 290	College Algebra +
Calculus I + Trigonometry	M171Q + M170	Level 150	Intro to Algebra
Pre-Calculus	M151Q	Level 100	Foundation of Math + Intro Algebra
College Algebra/ Statistics	M121Q/ STATS 216Q		UD
	Calculus I Calculus I + Trigonometry Pre-Calculus College Algebra/ Statistics	Calculus IM171QCalculus I + TrigonometryM171Q + M170Pre-CalculusM151QPre-CalculusM151QCollege Algebra/ StatisticsM121Q/ STATS 216Q	Calculus IM171QLevel 250 or 290Calculus I + TrigonometryM171Q + M170Level 150Pre-CalculusM151QLevel 100College Algebra/ StatisticsM121Q/ STATS 216QLevel 100

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Mountains & Minds

M121Q +M021

M 090

090

M 063 + M



Earth Science

Paleontology

Snow Science

Geography Geographic Information Science (GIS)/Planning





Department of Earth Sciences

Alex Reynolds- Academic Advisor Dr. David Varricchio – Department Head

Claudia Albrecht – Academic Services Coordinator

226 Traphagen, Main Office 406-994-3331





Info all Earth Science students need to know...

- •□120 credits to earn your Bachelor of Science (BS)
- To maintain 4-year graduation timeline students must successfully complete 15 credits per semester (or 30 credits per academic year)
- 15 credits per semester may be required for certain scholarships
- Each semester will include a mix of CORE, Major, Elective and/or pre-requisite courses
- 12 credits is the minimum for full-time standing, tuition remains the same at 12+ credits

•Many 300-400 level courses are taught once a year or every other year. Therefore, after completing the required 100-200 level courses, students are encouraged to take 300 level beginning their sophomore year. Many 300 level courses are prerequisites for 400 level.





Math Options For Earth Sciences

Option 1

• M 171

PREREQUISITE: M 151Q or Math Level
 500

• M 172

○ PREREQUISITE: M 171Q

• STAT 332

○ PREREQUISITE: <u>M 172</u>

Option 2

• M 161

• PREREQUISITE: M 121Q or Math Level 400

• STAT 216

 PREREQUISITE: Math Level 300, or a C- or better in any 100 level or above M course

• STAT 337

PREREQUISITE: <u>STAT 216Q</u> or <u>STAT 332</u>

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Paleontology Option

 Recommendation is to take more Statistic classes for this major

Math Level 500 (15 credits) ERTH 101IN M 171Q or M 161Q CHMY 141/142 US CORE or WRIT 101W	ERTH 101IN BIOB 170IN M 121Q + M 021 (5 cr) US CORE or WRIT 101W					
Math Level 400 (15 credits)	Math Level 150 (15 credits)					
ERTH 101IN	ERTH 101IN					
M 151Q or M 161Q	BIOB 170IN					
CHMY 141/142	M 090					
US CORE or WRIT 101W	US CORE or WRIT 101W					
Math Level 300 (15 credits)	Math Level 100 (16 credits)					
ERTH 101IN	ERTH 101IN					
M 121Q	BIOB 170IN					
BIOB 170IN	M 063 + M 090 (5 cr)					
US CORE or WRIT 101W	US CORE or WRIT 101W					

Snow Science Option

- Students need STAT 216 + STAT 337 (NOT STAT 332), STAT 411 required;
 - M 151 does NOT substitute for M 161

Math Level 500 (14 credits)

ERTH 101IN M 171Q or M 161Q GPHY 141D US CORE or WRIT 101W Math Level 250/290 (15 credits) ERTH 101IN GPHY 141D M 121Q + M 021 (5 cr) US CORE or WRIT 101W

Math Level 400 (14 credits) ERTH 101IN M 151Q or M 161Q GPHY 141D US CORE or WRIT 101W

Math Level 150 (14 credits) ERTH 101IN GPHY 141D M 090 US CORE or WRIT 101W

Math Level 300 (14 credits) ERTH 101IN M 121Q GPHY 141D US CORE or WRIT 101W Math Level 100 (15 credits) ERTH 101IN GPHY 141D M 063 + M 090 (5 cr) US CORE or WRIT 101W

Geology Option

Math Level 500 (15 credits)

ERTH 101IN M 171Q or M 161Q CHMY 141/142 US CORE or WRIT 101W Math Level 250/290 (15 credits) ERTH 101IN M 121Q + M 021 (5 cr) US CORE or WRIT 101W CORE: IA, D, IH, IS

Math Level 400 (15 credits) ERTH 101IN M 151Q or M 161Q CHMY 141/142 US CORE or WRIT 101W Math Level 150 (16 credits) ERTH 101IN M 090 US CORE or WRIT 101W 2 CORE Options: IA, D, IH, IS

Math Level 300 (16 credits) ERTH 101IN M 121Q or STAT 216Q US CORE or WRIT 101W 2 CORE Options: IA, D, IH, IS Math Level 100 (15 credits) ERTH 101IN M 063 + M 090 (5 cr) US CORE or WRIT 101W CORE: IA, D, IH, IS

Geography Option

- Human Geography Emphasis
- Physical Geography Emphasis

Math Level 500 (16 credits) ERTH 101IN STAT 216Q GPHY 141D US CORE or WRIT 101W CORE: IA, IH, IS, CS	Math Level 250/290 (15 credits) ERTH 101IN M 121Q + M 021 (5 cr) GPHY 141D US CORE or WRIT 101W					
Math Level 400 (16 credits) ERTH 101IN STAT 216Q GPHY 141D US CORE or WRIT 101W CORE: IA, IH, IS, CS	Math Level 150 (14 credits) ERTH 101IN M 090 GPHY 141D US CORE or WRIT 101W					
Math Level 300 (16 credits) ERTH 101IN GPHY 141D STAT 216Q US CORE or WRIT 101W CORE: IA, IH, IS, CS	Math Level 100 (15 credits) ERTH 101IN M 063 + M 090 (5 cr) GPHY 141D US CORE or WRIT 101W					

Geographic Information Science (GIS)/ Planning Option

Math Level 500 (16 credits) ERTH 101IN STAT 216Q GPHY 141D US CORE or WRIT 101W ECNS 101IS or MART 145RA	Math Level 250/290 (15 credits) ERTH 101IN M 121Q + M 021 (5 cr) GPHY 141D US CORE or WRIT 101W					
Math Level 400 (16 credits) ERTH 101IN M 151Q GPHY 141D US CORE or WRIT 101W	Math Level 150 (14 credits) ERTH 101IN M 090 GPHY 141D US CORE or WRIT 101W					
Math Level 300 (16 credits) ERTH 101IN GPHY 141D M 121Q US CORE or WRIT 101W ECNS 101IS or MART 145RA	Math Level 100 (15 credits) ERTH 101IN M 063 + M 090 (5 cr) GPHY 141D US CORE or WRIT 101W					

Department of Ecology

- B.S. in Biological Sciences
 - Fish and Wildlife Ecology and Management
 - Conservation Biology and Ecology
 - Organismal Biology
 - Biology Teaching

• Interdisciplinary minor in Water Resources

Department of Ecology

Aisha Garged- Academic Advisor Alex Reynolds- Academic Advisor Dr. Diane Debinski – Department Head

Madalyn Eglian – Academic Services Coordinator

310 Lewis Hall, Main Office 406-994-4548

B. Monginoux

www.Photo-Paysage.com

Info all Ecology students need to know...

- 120 credits to earn your Bachelor of Science (BS)
- To maintain 4-year graduation timeline students must successfully complete 15 credits per semester (or 30 credits per academic year)
- 15 credits per semester may be required for certain scholarships
- Each semester will include a mix of CORE, Major, Elective and/or pre-requisite courses
- 12 credits is the minimum for full-time standing, tuition remains the same at 12+ credits

Overview of Ecology's Concentrations

- Every student in the Ecology department earns a B.S. in Biological Sciences, but chooses one of four concentrations to focus their studies:
 - **Fish and Wildlife Ecology and Management:** This concentration is designed for students who want to enter a career in wildlife biology. It emphasizes the conservation of biota and natural resources with a focus on preparing students for careers as fish and wildlife biologists.
 - Conservation Biology and Ecology: This concentration also focuses on the conservation of biota and natural resources, but also includes a broader understanding of the ways natural and human-related process affect biological diversity and the discussion of societal context.
 - Organismal Biology: This highly customizable concentration focuses on understanding plant and animal biology from the inner-most workings of the internal biological systems and those organisms' interaction with their ecosystem.
 - **Biology-Teaching:** This concentration provides a solid education in biology and basic sciences with professional preparation courses required for state teacher certification in grades 5-12.



How to chose your Fall'24 schedule:

- Considerations:
 - Courses have been chosen to keep you on track to graduation
 - Transfer credits from high school were considered (AP, Dual Enrollment, IB)
 - $\,\circ\,$ Courses from your MAJOR
 - CORE courses



Ecology & Math Placement

- Why is an appropriate math placement important?
 - Answer: Math Placement is your starting line to reach your major requirements
- MAJOR REQUIREMENTS:
 - M 161Q- Survey of Calculus
 - Chemistry
 - FWEM: CHMY 121/122 Intro to General Chemistry w/ Lab and Recitation = 300 Math Placement
 - CBE, Org Bio and Bio T.: CHMY 141/142 College Chemistry 1 w/ Lab = 400 Math Placement

Fish and Wildlife Ecology & Management

SCAN ME

Math Level 500 (15 credits)	Math Level 250/290 (16 credits)					
WILD 201	WILD 201					
BIOB 170IN	BIOB 170IN					
CHMY 121/122	M 121Q + M 021 (5 cr)					
US CORE or WRIT 101W	US CORE or WRIT 101W					
Choose One: BIOE 103CS/ENSC 110/NRSM 101	Choose One: BIOE 103CS/ENSC 110/NRSM 101					
Math Level 400 (15 credits)	Math Level 150 (15 credits)					
WILD 201	WILD 201					
BIOB 170IN	BIOB 170IN					
CHMY 121/122	M 090					
US CORE or WRIT 101W	US CORE or WRIT 101W					
Choose One: BIOE 103CS/ENSC 110/NRSM	Choose One: BIOE 103CS/ENSC 110/NRSM 101					
101						
Math Level 300 (15 credits)	Math Level 100 (16 credits)					
WILD 201	WILD 201					
BIOB 170IN	BIOB 170IN					
CHMY 121/122	M 063 + M 090 (5 cr)					
US CORE or WRIT 101W	US CORE or WRIT 101W (3 cr)					
Choose One: BIOE 103CS/ENSC 110/NRSM	Choose One: BIOE 103CS/ENSC 110/NRSM 101					
101						

Conservation Biology & Ecology

Math Level 500 (14 credits) BIOB 170IN CHMY 141/142 CLS 101US or COMX 111US BIOE 103CS	Math Level 250/290 (15 credits) BIOB 170IN BIOE 103CS M 121Q + M 021 (5 cr) CLS 101US or COMX 111US						
Math Level 400 (16 credits) BIOB 170IN BIOE 103CS CHMY 141/142 CLS 101US or COMX 111US Choose One CORE: IA, IH, IS, D, W	Math Level 150 (14 credits) BIOB 170IN BIOE 103CS M 090 CLS 101US or COMX 111US						
Math Level 300 (16 credits) BIOB 170IN M121Q BIOE 103CS CLS 101US or COMX 111US Choose One CORE: IA, IH, IS, D, W	Math Level 100 (15 credits) BIOB 170IN BIOE 103CS M 063 + M 090 (5 cr.) CLS 101US or COMX 111US						







Organismal Biology



SCAN ME

Math Level 500 (14 credits) BIOB 170IN CHMY 141/142 STAT216Q CLS 101US or COMX 111US Choose One CORE: IA, IH, IS, D, W

Math Level 400 (15 credits) BIOB 170IN CHMY 141/142 M161Q CLS 101US or COMX 111US Math Level 250/290 (15 credits) BIOB 170IN M 121Q + M 021 (5 cr) CLS 101US or COMX 111US Choose One CORE: IA, IH, IS, D, W

Math Level 150 (14 credits) BIOB 170IN M 090 CLS 101US or COMX 111US Choose One CORE: IA, IH, IS, D, W

Math Level 300 (16 credits) BIOB 170IN M121Q CLS 101US or COMX 111US Choose One CORE: IA, IH, IS, D, W Math Level 100 (16 credits) BIOB 170IN M 063 + M 090 (5 cr) CLS 101US or COMX 111US Choose One CORE: IA, IH, IS, D, W

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Biology Teaching Option



Math Level 500 (14 credits)	Math Level 250/290 (15 credits)
BIOB 170IN	BIOB 170IN
CHMY 141/142	M 121Q + M 021 (5 cr.)
STAT216Q	US CORE or WRIT 101W
US CORE or WRIT 101W	HDFS 101IS
Math Level 400 (14 credits)	Math Level 150 (14 credits)
BIOB 170IN	BIOB 170IN
CHMY 141/142	M 090
M161Q	US CORE or WRIT 101W
US CORE or WRIT 101W	HDFS 101IS
Math Level 300 (16 credits)	Math Level 100 (15 credits)
BIOB 170IN	BIOB 170IN
M121Q	M 063 + M 090 (5 cr)
US CORE or WRIT 101W	US CORE or WRIT 101W
HDFS 101IS	HDFS 101IS

Teaching



David Reese

Advisor Book an appointment



RC Townsend Advisor Book an appointment

- In this program, you have two advisors. Your assigned Program Advisor and for any education questions meet with an education advisor: RC Townsend or David Reese.
- For an example: student teaching, licenses, teaching education program requirements/application.



EDUCATION ADVISING



Program Assessment for the Department of Ecology

- All incoming Freshman pursuing a B.S. in Biological Sciences are required to complete Program Assessment 1 and 2
- Program Assessment 1 Start of Freshman Year prior to taking their first course at MSU
- Program Assessment 2 End of Senior Year prior to graduation
- We are attempting to review the Degree Program and Courses offered by the Ecology department
- Good news—it's not graded. You can't fail this assessment
- We are not assessing you specifically, we are assessing the content and material you are learning over 4 year

Questions?







SIGN-IN PLEASE!

Username: .\student Password: MSU4You!



<u>Today:</u> DegreeWorks Plan Advisor-approved list of classes!

itical	Course Requirement		Credits	
	PHSX 220	Q ()	4.0	
	COMX 111US	111US Q 3.0		
	M 171Q	Q i	4.0	
	EMEC 100	Q i	1.0	
	EMEC 103	Q i	2.0	
	AMST 101D	Q ()	3.0	
ritical	Choice Requirement			
				•••
Placehol	lder Requirement		Value	
Comme	ent		TIA CORE, IH CORE, IS	CORE



Tomorrow: Registration in CatCourse Pick your actual schedule!

Cou	rses for	2023 Fall	Semester			Monday		Tuesday		Wednesday		Thursday		Friday	
bject	Search CORE Courses	DegreeWorks		Courses	8:15 8:30 8:45										
Degree Plan First Semester Freshman Year - Plan Term 2023 Fall Semester		Freshman Year 👻	BGEN 104US Business & Entrepreneurship Fundamentals Seminar	9am 9:15 9:30	BIOB-105CS ROMNEY 306 Face to Face	-		0	BIOB-105CS ROMNEY 306 Face to Face	-		0	BIOB-105CS ROMNEY 306 Face to Face		
		2023 Fall Semester		BIOB 105CS Introduction to Biotechnology ECNS 101IS Economic Way of Thinking	9:45 10am 10:15 10:30 10:45	M-161Q ROMNEY 415 Face to Face		M-161Q ROMNEY 415 Face to Face	e		0	M-161Q ROMNEY 415 Face to Face	a o	M-161Q ROMNEY 415 Face to Face	
A	()	Backup: ECHM 205CS	S, NASX 232D, GPHY 121D	M 161Q Survey of Calculus	11am 11:15 11:30	BGEN-104US JABS 405 Face to Face	•		0	BGEN-104US JABS 405 Face to Face	•		0	BGEN-104US JABS 405 Face to Face	
		intrepreneurship Fun Biology-General 1050 Biotechnology	damentals Seminar	Introduction to Native American Studies	11:45 12pm 12:15 12:30 12:45		6	ECNS-101IS GAINES 101	6		0	ECNS-101IS GAINES 101	6	NASX-105D AIH 102 Face to Face	
	() E	conomics 101IS - Ec	conomic Way of Thinking		1pm 1:15			Face to Face Hill, Andrew J.				Face to Face Hill, Andrew J.			
Mathematics 161Q - Survey of Calculus			1:30 1:45												
	1 1	lative American Stud Native American Stud	dies 105D - Introduction to dies		2pm 2:15 2:30 2:45										
<	Return to Generate	Schedules	+ Add		3pm 3:15 3:30 3:45	NASX-105D LJH 339 Face to Face	-		0	NASX-105D LJH 339 Face to Face	-				



Before you leave:

Have ALL your questions answered

Have your DegreeWorks Plan checked & locked by an advisor

Have backup Core classes noted in your DegreeWorks Plan



Extra Advising Help Times During Orientation in Wilson Hall 1-106!

Wednesday 9:00 am – 4:30 pm

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Your Checklist for Registration Lab

- Show up to Roberts Hall Computer Labs at your assigned registration times
 - Keep an eye out for text or email updates
- Bring your CLS Folder (any notes you took today)
- Take a picture of the GOLD SHEET before you turn it in, remember to look at the picture tomorrow in the labs
- Try to register with the information you have, ask for help when you need it!



