



orientation

MONTANA
STATE UNIVERSITY

— BOZEMAN · MONTANA —

General Engineering Biomedical Engineering

Jennifer Clark, Assistant Dean

Katie Gahagan, Academic Advising Team Lead

Jeff Heys, BME Program Coordinator, etc.



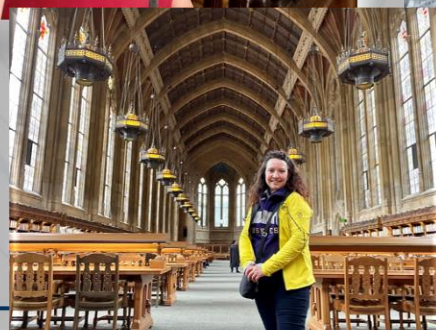
Today's Topics



Bobcat Trail

Jen Clark, Ed.D.

General Engineering - Not a degree program...but a way to learn about how and where you fit.



Katie Gahagan

- MSU graduate for undergrad & master's
- Grew up in three big cities
- Outside of work
 - Brazilian Jiu Jitsu
 - Studying
 - Hanging with my dogs



A little about me...

- Graduated from high school in a class of 24 students
- Graduated from MSU in Chemical Engineering
- Research focused on development of mathematical models of human diseases





General Engineering

Supporting students in their Freshman year (first 30 credits) explore engineering and computer science. *Not a degree program...but a way to learn about the profession and where you fit.*

Academic Advising Support

**Jennifer Clark
Katie Gahagan**

**Matching
Interests with
Degrees**

**Find Us In
Asbjornson
Rm 237**



Biomedical Engineering

Supported through the NACOE Dean's Office.

Program Coordinator

Jeff Heys

Academic Advisors

Katie Gahagan

Jeff Heys



**Find Us In
Asbjornson
Rm 237b**

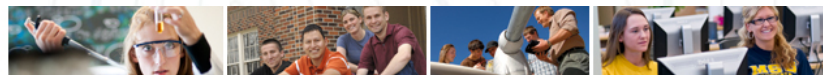


Degree Requirements

- Credit Requirement: 120-128 credits (42 upper division)
 - Core 2.0 Requirements
 - Performance Requirement
 - C- or better in all required courses
 - Major Course Requirements
-
- Use DegreeWorks and Flowcharts to help you track your progress



DegreeWorks



Back to MyInfo Help & FAQ Print Exit

Find Student ID: -00202712 Name: Heys, Jeffrey J Degree: BS Major: Chemical Engineering Level: UG Classification: Senior Attribute: Last Audit: 06/27/2017 Last Refresh: Today at 3:20 am

Worksheets Plans Notes Exceptions GPA Calc

Worksheets Format: Student View View Save as PDF Process New Include in-progress classes Include preregistered classes Classes by Term

What If

Look Ahead

Legend

- Complete
- Complete except for classes in-progress
- Nearly complete - see advisor
- Not Complete
- Prerequisite Required
- Any course number

Montana State University Bozeman

Student View AD63Ea2Q as of 06/27/2017 at 18:31

Student	Heys, Jeffrey J	Level	Undergraduate - Semester
Confidential Record		Degree	Bachelor of Science
ID	-00202712	College	College of Engineering
Classification	Senior	Major	Chemical Engineering
Advisor		Minor	
Overall GPA	3.92	More Info	Placement Data
Registration Hold		Academic Standing	
Registration PIN/Date		Student Phone	(406) 9947902

Degree in Bachelor of Science Catalog Year: 1994-1996

42 Upper-Division Credits Required

128 Credits required

WARNING: This DegreeWorks audit is based on the 2010-2012 catalog. However, your record is still linked to a previous catalog and therefore you may choose to graduate under the degree requirements of your current catalog or to pursue a degree from a more current catalog. Please consult your advisor to determine the catalog year that best meets your academic goals. If you choose to graduate under the 2010-2012 (or the 2012-2014) catalog please contact the Registrar's office for the proper paperwork and continue to use DegreeWorks in consultation with your advisor to ensure timely graduation. If you choose to graduate under your current (previous) catalog DegreeWorks will not provide an appropriate audit of your academic progress. Your academic advisor and department certifying officer will be your primary resources to monitor degree progress.

You are meeting the minimum MSU degree GPA of 2.0

CORE 2.0

Major Requirements Still Needed: See Major in Chemical Engineering section

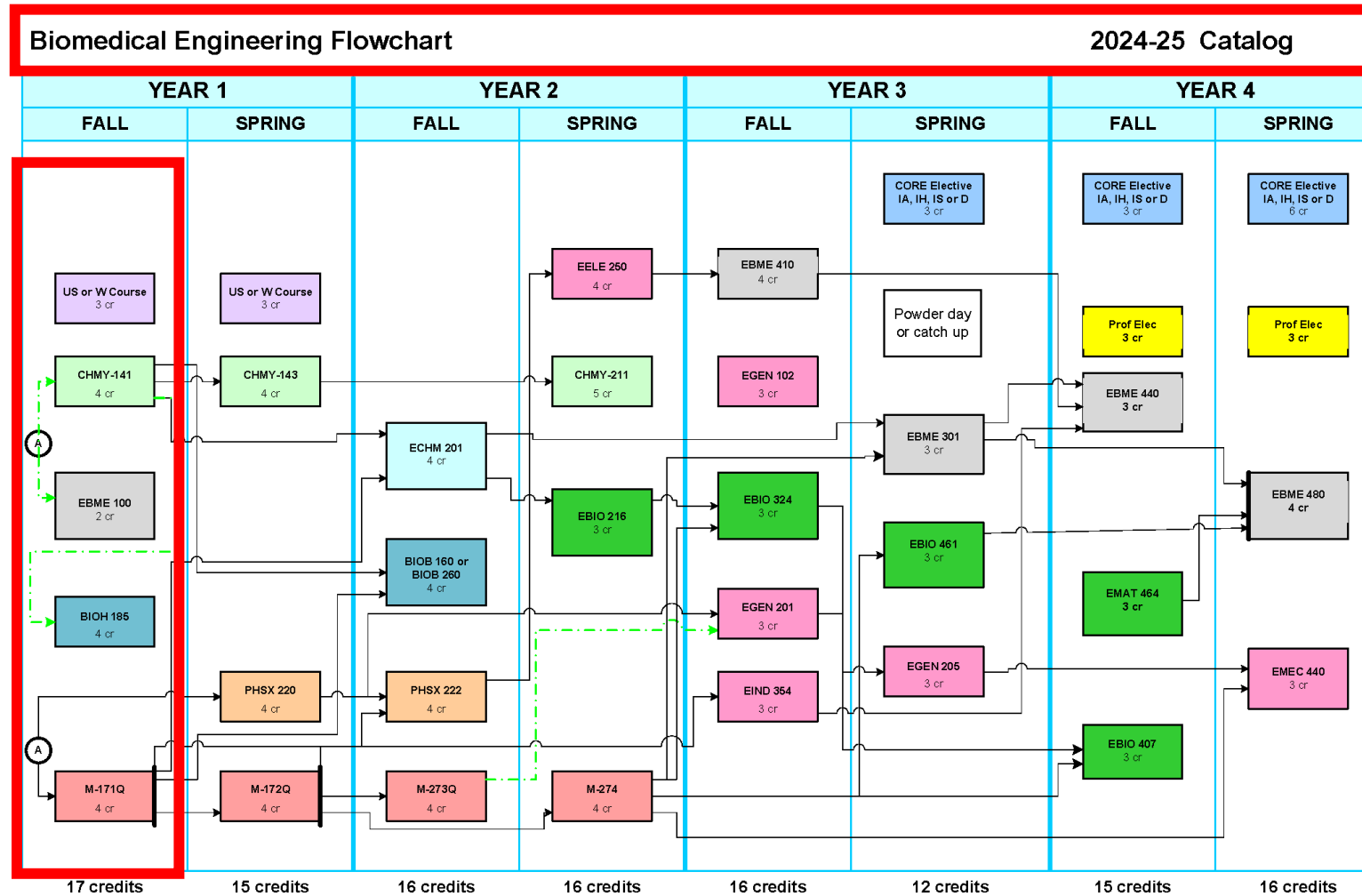
CORE 2.0 Catalog Year: 1994-1996

Check your Major Block for requirements that also fulfill CORE 2.0 requirements

<input checked="" type="checkbox"/> University Seminar (US)	CH_E 251V	Societal Impacts Ch E	A-	3	1994 Spring
<input checked="" type="checkbox"/> College Writing (W)	ENGL 121W	College Writing I	A	3	1993 Spring
<input checked="" type="checkbox"/> Quantitative Reasoning (Q)	MATH 224M	Calc Funct Sev Varib	A	4	1993 Fall
<input checked="" type="checkbox"/> Diversity (D)	GEOG 105SG	World Regional Geog	A	3	1992 Fall
<input checked="" type="checkbox"/> Contemp Issues & Inquiry Nat Sci or Permitted Subs					
Choose either (one CS and one IN) or (any two Permitted Substitutions)					
<input checked="" type="checkbox"/> Permitted Substitutions for (CS) & (IN)	CHEM 131N	General Chemistry I	A-	4	1992 Fall
	CHEM 132N	General Chemistry II	A	4	1993 Spring



BME Curriculum Flowchart



(A) Math Level 4 (M 151Q)

Pre-Requisite
*not all pre-requisites
are shown

Co-Requisite

rev. 11/1/2023, jjh

NOTE: This flowchart has been reviewed and updated, but there could still be errors. Please report any errors to Jeff Heys

EBME 100: Intro to Biomed Eng
 EBME 301: Eng Analysis of Physio Systems
 EBME 410: Fund Bioelectronics and Bioinstrumentation
 EBME 440: Biomedical Engineering Lab
 EBME 480: Biomedical Engineering Design

Biomedical Engineering YEAR 1, FALL Semester

US or W Course
3 cr

Writing or University Seminar

College policy on [Writing Exemption](#) – next slide

BIOH 185

BIOH 185: Integrated Physiology I (4 credits)

CHMY-141
(CHEM 131)
4 cr

Chemistry: CHMY 141 (do NOT take CHMY 121)

EBME 100
2 cr

Intro to BME: EBME 100

M-171Q
(MATH 181)
4 cr

Math course: based on MPLEX, ACT/SAT, or AP

M171 Calc I is most common, alternatives are
M151 Precalculus or M121 College Algebra



General Engineering YEAR 1, FALL Semester

US or W Course
3 cr

Writing or University Seminar

College policy on [Writing Exemption](#) – next slide

CORE Elective
IA, IH, IS or D
3 cr

CORE: IA, IH, IS or D

CHMY-141
(CHEM 131)
4 cr

Chemistry: CHMY 141 (do NOT take CHMY 121)

Choose Engr/CS
Intro Course
1-3 cr

Intro to Engr/CS (e.g., EGEN 105)

M-171Q
(MATH 181)
4 cr

Math course: based on MPLEX, ACT/SAT, or AP

M171 Calc I is most common, alternatives are
M151 Precalculus or M121 College Algebra



AP and IB Credit

- Note – many AP classes will satisfy MSU CORE
- If the course has been accepted by MSU and appears on your transcript, it is exactly like you took and passed the course.
 - Counts as a pre-requisite
 - Credits appear on transcript
 - Course can be used to meet program requirements
 - Extra AP credits not applicable to 1st BS degree can count towards 2nd BS degree



Writing Exemption

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



Honors Program – US and H CORE

Texts and Critics:

- HONH 201 counts as your CORE US course
- HONH 202 satisfies the CORE IH requirement
- If you take HONH 201 and HONH 202, don't take US CORE and don't take IH CORE
- Honors math, chemistry, physics courses available



Pre-Med or other health profession – IS CORE

- Introduction to Psychology (PSYX 100IS) and Introduction to Sociology (SOCL 101IS) are preferred by many medical schools (and you may want to delay taking these class until you are approaching the MCATs)
- Take the two-semester organic chemistry sequence in year 2 ... and other changes depending on health profession
- **Students considering a health profession (e.g., medical school, dental school, PA, PT, etc.) should contact the Health Professions Advising Office**



Welcome to adulthood

- You now have significantly more freedom
- You now have significantly more responsibility
- You have to make decisions...
...we won't make them for you.

Next Steps...on your computer

1. Go onto www.montana.edu/myinfo
2. Under “Student Services” select DegreeWorks
3. Build a **Plan** for Fall 2024
4. Have your Plan checked and Locked
5. (Recommended) Back in myinfo and under Student Services, select Registration and then CatCourse and build a potential Fall 2024 schedule (take a picture of it with your phone).

Login:

Username: .\student

Password: MSU4You!



Log into MyInfo

- Log into MyInfo either from MSU Home Page or www.montana.edu/myinfo
- Use your personal NetID – for example: b94g842
- Password – A password you have personally set for your NetID



Click on the student services tab

Personal Information **Student Services** Faculty Services Advising Services Employee Services Communications Parking Services MyApps Notifications

Student Services

[Click here](#) for more information regarding MSU's Student Email Policy.

FERPA Information: Click here for the Family Education Rights and Privacy Act information.

Enrollment Verification: Connect to the National Student Clearinghouse to print a free enrollment verification certificate to provide to health insurer, housing provider, credit issue

Official Transcripts: Connect to the National Student Clearinghouse to order an official transcript and pay with a credit or debit card.

New Course Numbers: Click [here](#) (opens in new window) for info on new subject abbreviations and course numbers.

DegreeWorks

Please clear your cache before using DegreeWorks; this may resolve issues because of a recent upgrade.

Please use MSU-Secure rather than MSU-Guest if connecting from the wireless network on campus.

Please use Google Chrome to access DegreeWorks.

DegreeWorks is an electronic degree audit program and academic advising tool designed to assist you and advisors in reviewing your degree progress.

NavMSU

Required Online Education

Online training for new students mandated by the Board of Regents: AlcoholEdu, Haven, and Transit programs.

Registration

Check your registration status; Add or drop classes; Select variable credits, grading modes, or levels; Display your class schedule.

Registration Timetable

Student Records

View your holds; Display grades and transcripts; View your Student Tax Information; Review charges and payments; View Web Bill / Confirmation

GO GREEN> Click on Student Records to opt for the electronic version of 1098-T tax form

Student Health Service

Check your insurance status.

Next click on DegreeWorks



1. Log into MyInfo with NetID from MSU home page → Students (upper left) → Navigate to Student Services → DegreeWorks and select the Plans tab

2. Create a New Plan, then choose “Blank Plan”



Back to MyInfo Help & FAQ

Find	Student ID	Name	Degree	Major	Level	Classification
	-02479117	Bobcat, Champ The	BS	Civil Engineering	UG	Freshman

Worksheets **Plans** Notes GPA Calc

Worksheets > Format: Student View View Save as PDF Process New

What If

Look Ahead

Legend

Complete

Student View AD64A0i as of 04/23/2024 at 10:21

Student	Name
	Bobcat, Champ The



Exit

0 pm

View: Select **New Plan** Delete



Modified Who

Create Plan

Would you like to create a plan based on a template or would you like to start from scratch?

Blank Plan Select Template

3. Name the Plan: **OF2**

Worksheets Plans Notes GPA Calc

Student Planner for: Bobcat, Champ The

Description: **OF2**

Degree: Bachelor of Science

4. Add the term using the "+" icon.

Select 2024 Fall

View: Edit View Plan List New Plan

Still Needed

resh Collapse All

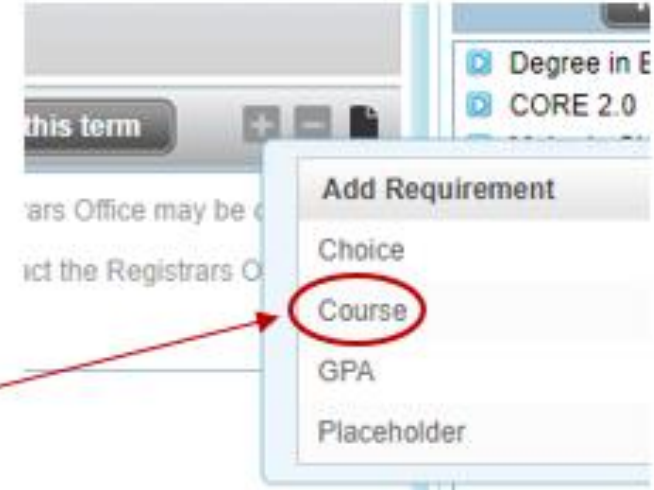
chelor of Science

Engineering

ars Office may be c
act the Registrars O

Add Term

- 2015 Fall
- 2016 Spring
- 2016 Fall
- 2017 Spring
- 2017 Summer
- 2017 Fall
- 2018 Spring
- 2018 Summer
- 2018 Fall
- 2019 Spring
- 2019 Summer



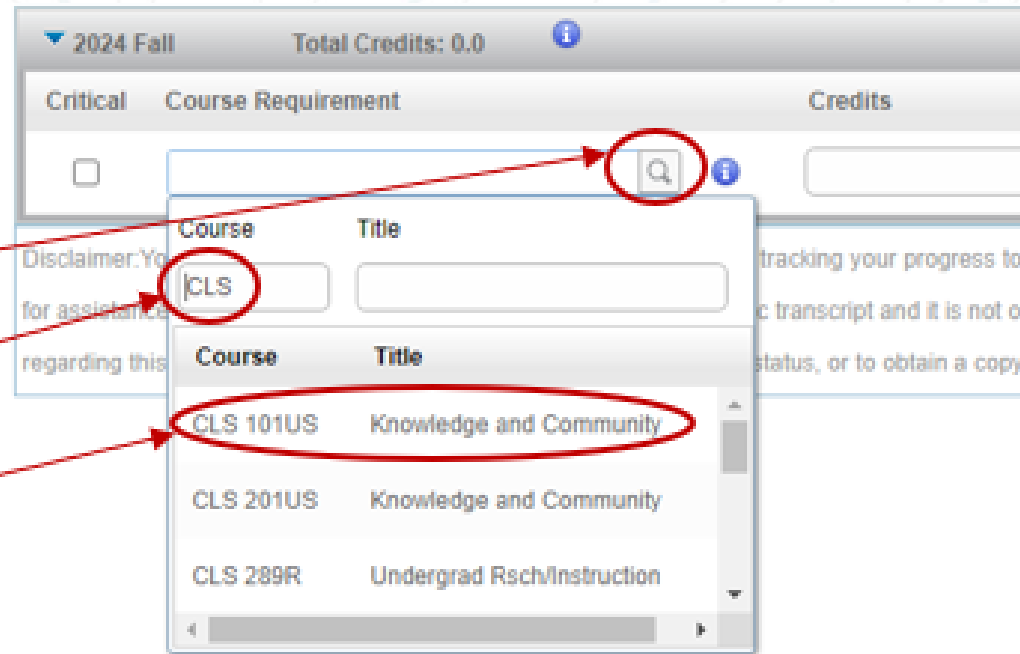
5. Add a Course using the “+” icon on the term bar.

You will repeat this for each of your courses

6. Search for Course

7. Type the Rubric (subject abbreviation)

8. Select the Course



Let's have everyone add either EBIO 100 or ECHM 100 to their course list
Rubric is either ECHM or EBIO

9. Keep adding courses until complete (steps 5-8)

10. SAVE the plan

11. See Advisor to have your plan locked

Find Name Degree Major Level Classification Attribute Last Audit Last Refresh Worksheets Plans Notes GPA Calc

Student Planner for: Bobcat, Champ The View: Edit View Plan List New Plan

Description: Active Locked Degree: Level:

2024 Fall Total Credits: 14.0 Reassign Delete this term

Critical	Course Requirement	Credits	Minimum Grade	Notes
<input type="checkbox"/>	CLS 101US	3.0	None	
<input type="checkbox"/>	M 171Q	4.0	None	
<input type="checkbox"/>	PHSX 220	4.0	None	
<input type="checkbox"/>	EELE 101	3.0	None	

Disclaimer: You are encouraged to use this degree plan as a guide for tracking your progress toward completion of the above requirements. Your academic advisor or the Registrars Office may be contacted for assistance in interpreting this report. This plan is not your academic transcript and it is not official notification of completion of degree or certificate requirements. Please contact the Registrars Office regarding this degree plan, your official degree/certificate completion status, or to obtain a copy of your academic transcript.

Last updated by: Spannring, Shelli R on 29-Apr-2024

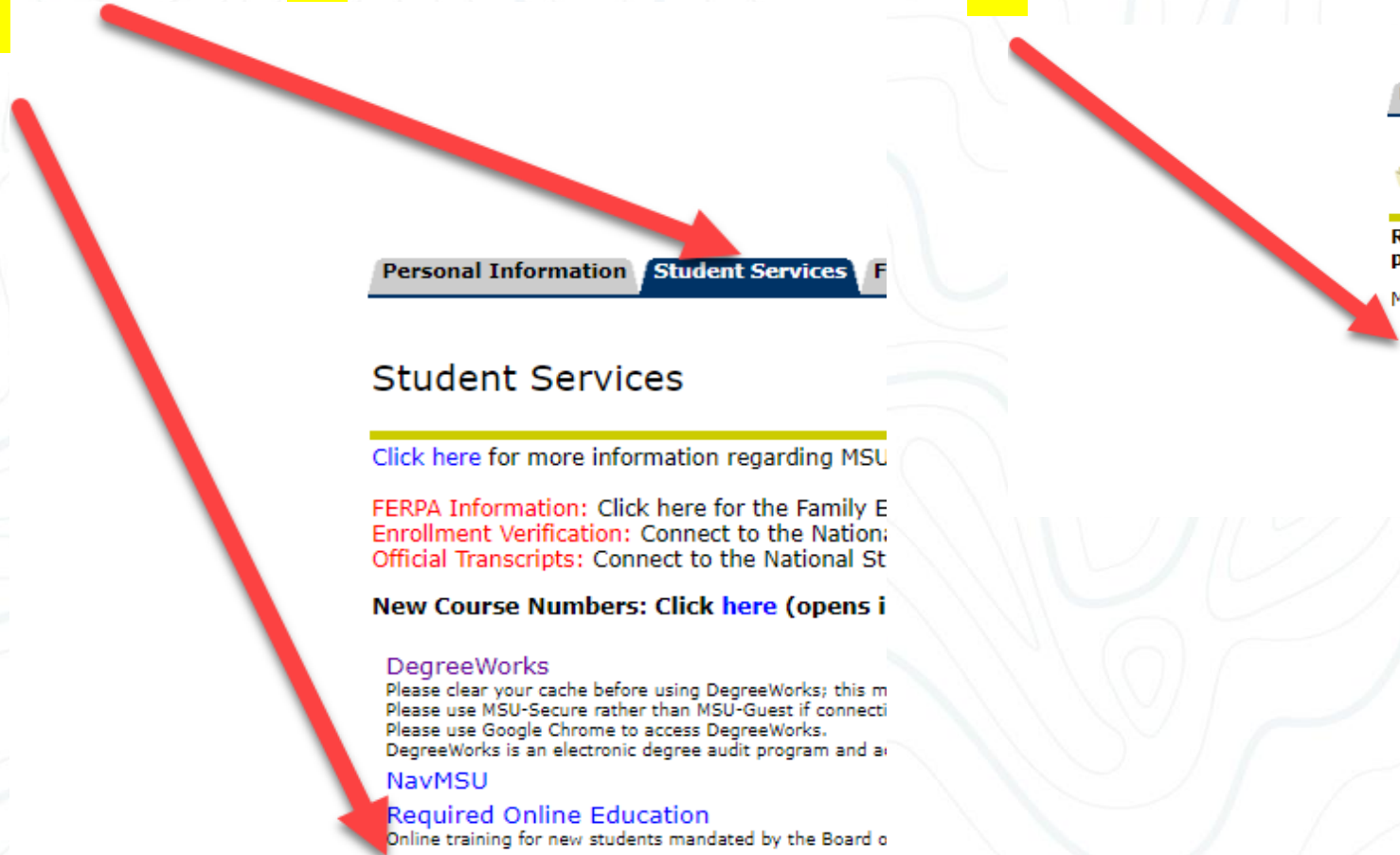
Audit Delete Save As... **Save**

Have a locked plan??? You can try building several options of your schedule with CatCourse.

Go to the student services tab in MyInfo
Click on Registration



Click on CatCourse



Personal Information **Student Services** F

Student Services

[Click here](#) for more information regarding MSU

FERPA Information: Click here for the Family E
Enrollment Verification: Connect to the Nation;
Official Transcripts: Connect to the National St

New Course Numbers: Click [here](#) (opens i

DegreeWorks
Please clear your cache before using DegreeWorks; this m
Please use MSU-Secure rather than MSU-Guest if connecti
Please use Google Chrome to access DegreeWorks.
DegreeWorks is an electronic degree audit program and a

NavMSU

Required Online Education
Online training for new students mandated by the Board o

Registration
Check your registration status; Add or drop classes; Selec

Registration Timetable

Student Records
View your holds; Display grades and transcripts; View you

Personal Information **Student Services** |

Registration

**REMINDER: MSU does not mail paper bill
parent to receive the email.**

Many subject abbreviations and course numb

CatCourse
CatCourse is a tool for creating a personalized course sch
CatCourse Registration Cart
Register for courses which have been sent to Registrar
Information for New Course Numbers
Course Number Equivalency Tool
Add/Drop Classes

Emergency Contact Info Form

This information is crucial in the event that University personnel need to contact either you, or the person you have chosen in an emergency. You will periodically be asked to provide or review this information. This information is restricted to select University personnel who will limit its use and will not be shared outside the University.

* required field

Personal Contact Info

Please provide your most current address and telephone number where you can be reached in the event of an emergency.

Email*	Confirm Email*
<input type="text"/>	<input type="text"/>
Address Line 1*	
<input type="text"/>	
Address Line 2	Address Line 3
<input type="text"/>	<input type="text"/>
City*	State/Province*
<input type="text"/>	Not Applicable ▼
Zip/Postal Code*	Country*
<input type="text"/>	Select ▼
Area Code	Cell Phone Number
<input type="text"/>	<input type="text"/>
<input type="checkbox"/> Unlisted	

Primary Emergency Contact Info

Please provide the name and contact number of the person who the University should notify in the event of an emergency where you are not available.

Relationship*	
Spouse ▼	
First Name*	Last Name*
Lee	Richards
Area Code*	Phone Number*
406	5817898
Address Line 1*	
485 Farmland Crossing	
Address Line 2	Address Line 3
<input type="text"/>	<input type="text"/>
City*	State/Province*
Belgrade	Montana ▼
Zip/Postal Code*	Country*
59714	United States ▼

I acknowledge that the above information is correct



- You'll have to fill in your contact info
- You'll be asked if you want to have the MSU insurance or not (must accept or decline).
- Then continue to the registration and build your schedule
- Take a picture of your favorite schedules
- Let us know if you have scheduling conflicts