

**General Botany (BIOL 305) 4cr total
Spring 2020**

Class: HA 113 Mon, Weds & Fri NOON -12.50 pm

Lab: LH 209 Thurs 3.00 pm - 5.50 pm

**There is a separate syllabus for the lab section (BIOL 305L),
which will be discussed during your first lab.**

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Office hours: See website for times: web.mnstate.edu/marryand

First and Foremost:

Although I have been living in the Fargo/Moorhead area since 2001, I am "not from around here". If for ANY reason you do not understand something I say I expect you to put your hand up and ask me to repeat myself. The only way for you to fully understand this course is to fully understand me. **Such interruption will NOT annoy me in any way.** HOWEVER, other interruptions will not be acceptable.

Most importantly, I expect you to actively participate in class each day. Active participation means contributing to all discussions, offering supportive, but critical, responses, and committing to the in-class work that will go on. Your in-class participation is vital in my class.

Overview of course:

This course is designed for the biology major and is a comprehensive introduction to the plant kingdom including the following topics: life-history, reproduction, structure, and physiology. A laboratory is included and involves self-paced microscopic and macroscopic analysis of living and preserved specimens.. Registration in BIOL 305 Lab required.

Student Competencies: MSUM students will:

- Fully understand basic principles of the environment including water, soil, and light
- Develop an understanding of plant structures, growth, and reproduction between Gymnosperms and Angiosperms
- Develop an understanding of Plant Evolution and Systemics
- Develop an understanding of sustainable agriculture.

Text:

There is NO REQUIRED TEXTBOOK for this course this semester. I will be using a wide range of figures, data, and illustrations with copywriter permission and / or open source material.

Attendance:

Class attendance is **expected**. **If you are not there, you cannot contribute.**

Being late is **not acceptable**. It is simply rude to walk in while the class is in session, so please try and avoid doing so. That being said, if you are running a few minutes behind please do not skip the class period to avoid being late.

Of course, I understand the possibility of being absent from class due to participation in a university sponsored sport or creative event. However, I require written notice from your coach/advisor in class at least a week prior to your event.

Emails:

I will only read and reply to Emails asking for an appointment to come see me.

ABSOLUTELY no Emails complaining about class performance will be replied to. **COME AND SEE ME IN PERSON DURING OFFICE HOUSE TO DISCUSS ANY PROBLEMS YOU MAY BE HAVING.** **No assigned class work will be accepted via Email**

Cell Phones:

I consider cell phones going off during class incredibly disrespectful to both your fellow classmates and to me. Turn them OFF **BEFORE** entering the class room.

If you cell phone goes off during class you will be asked to leave. If, however, you are waiting for an **emergency call**, see me **BEFORE** class to let me

know what you are waiting for. I will not hear any explanations after the fact. **You must notify me before class begins of the call you are expecting.**

IF YOUR CELL PHONE GOES OFF DURING AN EXAM YOU WILL FAIL THE CLASS!

Exam Policy:

The exams will be a combination of multiple choice and short answer questions.

For those of you involved in sporting (or other creative) events for the university, I will, of course, allow you to take any missed exams. However, I require written notice from your coach/advisor in class at least a week prior to the exam.

I will allow a student to take a missed exam due to a very personal or medical emergency.

Absolutely NO cheating will be tolerated

Oral presentation:

Because we are surrounded on a daily basis by news articles, journal entries, and Internet stories concerning cutting-edge aspects of plant Science, I want us as a class to explore these issues during this class. This will also provide you all with vital experience in assimilating information from scientific sources, which you will need for your future careers.

It is completely up to you to decide on the topic, and I do not expect the topic to have anything to do with the chapter covered that week in class.

Plan to give a ten-minute presentation on an issue of your choice. Create a power-point slide presentation. Provide the entire class and me with a relevant handout. Plan for three-five minutes of question and answer time

One week before you present, I need to have a rough abstract of what your topic is, how you plan to present it, and why it is relevant to this class and to us as scientists. **This is a mandatory part of the presentation process. Failure to give me this abstract will result in a failing grade for the assignment. This must be typed.**

In Addition: -

Acts of sexual violence are intolerable. MSUM expects all members of the campus community to act in a manner that does not infringe on the rights of others. We are committed to eliminating all acts of sexual violence.

MSUM faculty and staff are concerned about the well-being and development of our students. We are obligated to share information with the MSUM Title IX Coordinator in certain situations to help ensure that the students' safety and welfare is being addressed, consistent with the requirements of the law. These disclosures include but are not limited to reports of sexual assault, relationship violence, and stalking.

If you have experienced or know someone who has experienced sexual violence, services and resources are available. You may also choose to file a report. For further information, contact Lynn Peterson, Title IX Coordinator, petrsnly@mnstate.edu; 218-477-2967, or Ashley Atteberry, Director of Student Conduct & Resolution; ashley.atteberry@mnstate.edu, 218-477-2174; both located in Flora Frick 153. Additional information is available at: www.mnstate.edu/titleix

Publications Statement-This publication, or any other material related to this course, is available in alternate format upon request. Please contact me at: marryand@mnstate.edu

Accessibility-Minnesota State University Moorhead is committed to providing equitable access to learning opportunities for all students and strives to make courses inclusive and accessible in accordance with sections 504 and 508 of the 1973 Rehabilitation Act and the Americans with Disabilities Act. The University will make reasonable accommodations for students with documented disabilities. Accessibility Resources (AR) is the campus office that collaborates with students in need of accommodations and assists in arranging reasonable accommodations.

If you have or think you may have a disability, please contact Accessibility Resources at (218) 477-4318 (V), (800) 627.3529 (MRS/TTY), or stop by to schedule an appointment with the Director of Accessibility Resources in 154C Flora Frick Hall. Please also contact Accessibility Resources if you are currently registered for services and have concerns. Additional information is available on the AR website: <http://www.mnstate.edu/accessibility> The ADA Coordinator for students and ADA compliance issues is Kara Gravley-Stack, Dean of Students; (218) 477-2391, kara.gravleystack@mnstate.edu, or 153 Flora Frick Hall.

Emergency Preparedness Guide and Maps- Building maps showing emergency exit routes, fire extinguisher locations, and fire alarm pull stations are conspicuously located in classrooms, labs, conference rooms, departmental main offices and residence halls.

The Emergency Preparedness Guides (flip style booklets) are located with the maps. Please review the floor plans as well as the guide so you know how to respond in an emergency situation to help protect yourself and others.

If you have questions, please contact Ryan Nelson, Director of Public Safety, at: ryan.nelson@mnstate.edu, or on his office number at: 218-477-5869. <https://www.mnstate.edu/publicsafety/>

Assignment Points:

Class Section:

3 Exams worth 100 pts each	300
Final in-class exam	100
Take-home final section	100
Out of class assignment	100
Class Oral Presentation	100
All Laboratory write ups	200
Lab Oral Presentation	100
Total	1000

Plus any bonus points as I see fit

Grading:

94-100% A	83-86% B	72-75% C	63-65% D
90-93% A-	80-82% B-	69-71% C-	61-62% D-
87-89% B+	76-79% C+	66-68% D+	60% below F

Course Outline:

Please remember that this outline should be considered tentative. The pace of the class is governed by your understanding of the material, questions asked and answered, and (unfortunately - due to where we are) the weather!

Topic

Jan	13	Introduction
	15	<i>Why, oh why, should I learn about plants?</i>
	17	<i>Why, oh why, should I learn about plants?</i>
Jan	20	<u>NON-INSTRUCTIONAL DAY/NON-DUTY DAY</u>
	22	Plant Chemistry and Higher Plant Cells
	24	Plant Chemistry and Higher Plant Cells

Jan	27	Evolution: Early Plants to Higher Plants	
	39	Evolution: Early Plants to Higher Plants	
	31	Evolution: Early Plants to Higher Plants	
Feb	3	Introduction to Water and Soil	
	5	Introduction to Water and Soil	
	7	Introduction to Water and Soil	<u>Oral presentation</u>
Feb	10	Out of class assignment	
	12	Out of class assignment	
	14	Out of class assignment	
Feb	17	Out of class assignment	
	19	Roots	<i>Out of class assignment Due</i>
	21	Roots	<u>Oral presentation</u>
Feb	24	stems	
	26	Stems	
	28	Exam 1	
Mar	2	Leaves	
	4	Leaves	
	6	Flowers and Reproduction	<u>Oral presentation</u>
Mar	9 - 13	<u>Spring Break!!!!!!!!!!!!</u>	
Mar	16	Flowers and Reproduction	
	18	Flowers and Reproduction	
	20	Photosynthesis and transport	<u>Oral presentation</u>
Mar	23	Photosynthesis and transport	
	25	Photosynthesis and transport	
	27	Exam 2	
Mar	30	Herbivory	
Apr	1	Herbivory	
	3	Herbivory	<u>Oral presentation</u>
Apr	6	Competition	
	8	Competition	
	10	<u>NON-INSTRUCTIONAL DAY/NON-DUTY DAY</u>	

Apr	13	<u>NON-INSTRUCTIONAL DAY/NON-DUTY DAY</u>	
	15	Competition	
	17	Exam 3	
Apr	20	Competition	
	22	Global change	
	24	Global change	<u>Oral presentation</u>
Apr	27	Global change / Introduction to Sustainable Agriculture	
	29	Introduction to Sustainable Agriculture	
May	1	Introduction to Sustainable Agriculture	<u>Oral presentation</u>
May	4	<u>LAST DAY OF CLASS</u>	
	6	Study Day - No Class	

Exam Week:**Final Exam May 12th Tuesday 2.00 pm.****Take Home section due at start of final exam**

NO exceptions!!!! This is the official designated time for the final exam for this course. There will be no clashes unless another instructor changes an exam time - which they cannot do!!!!