Course/Term

CHM 305 Research Methods  
Spring 2022

Instructor

Dr. Michael Castellani

Contact Information

- Office: Science Building S 408
- Office Hours: Mondays 1:30-2:30 pm, Wednesdays 2:00 – 3:00 pm and Tuesdays/Thursdays 9:30 – 11:00 am or by appointment in person/online using Microsoft Teams. I welcome drop-in visits, but cannot guarantee that I will be available to help you during non-office hours. Simple questions can be answered via email. *Office hours in-person must follow Marshall University guidelines and a face mask must be use at all times.*
- Office Phone: 304-696-6486
- Marshall Email: castella@marshall.edu

Course Description

A course concerning the searching and use of the chemical literature, ethical issues relating to the conduct of scientific research, proposal writing, scientific presentations, and proper scientific laboratory conduct.

Credits

1 credit hour-Undergraduate

Prerequisites

Grade of C or better in CHM 356.

Format (and Meeting Days/Times/Location)

Science Building S460, Wednesdays 1:00 – 1:50 pm. One occasion, the class will need to meet for 2 hours and we will need to break the class into 2 groups, one meeting Wednesday from 1:00-3:00, the other at a different time that we will select as a group. On 2 other occasions we will probably need an additional period to complete the work, it will probably be on Monday at 1:00. We will work this out on the first day of class. This course should be completed in one term.

Academic Calendar

For beginning, ending, and add/drop dates, see the Marshall University Academic Calendar (https://www.marshall.edu/academic-calendar/fall-2021-semester/)

Preferred Communication Method and Expected Response Time

*I have an Open Communication Policy:* If you are having trouble with a problem, concept, or anything class related please do not hesitate to email me. I do try to respond to email within 24 hours, but there are no guarantees. Class
announcements may occasionally be made via email to your university email address. Please check it on a regular basis. You must have and use your MU email account. Your personal email accounts will not be used for official communication with Marshall University programs and personnel. You may redirect your MU email to your own personal email account, but you must sign into your MU account to do that. Marshall University uses Office 365 email. For more information, visit Marshall IT: Office 365 (URL: https://www.marshall.edu/it/office365/). Lecture notes and handouts will be posted on my website (http://science.marshall.edu/castella/c305.html) and/or sent to you via email as attachments.

COVID-19 Related Information

Marshall's official COVID-19 protocols are online at https://www.marshall.edu/coronavirus. Policies and protocols may change over time as we respond to changing conditions. The website will always contain the most recent information.

Key policies at the start of the Fall 2021 semester include the following:

- **Masks are required for everyone in all public indoor spaces on university property, regardless of one's vaccination status. Bandanas, gaiters, and masks with exhalation valves are prohibited.** Face shields are not a substitute for cloth face masks. These spaces include classrooms, labs, office suites, hallways, lobbies, stairwells, etc. Instructors may choose to teach either while wearing a mask or face shield or while standing behind the plexiglass barrier in the classroom.


- **In order to remain in-person classes for the Fall 2021 semester, students must submit their current vaccination status** in the online Student Vaccination Registry here: https://mubert.marshall.edu/vaccinerecord.php (URL: https://mubert.marshall.edu/vaccinerecord.php/). The registry offers several possible responses, including an option to not disclose vaccination status.

- **Students will disinfect their personal workspaces and virtual learning hubs** with disinfectant wipes provided nearby.

- **Students who are unable to follow University requirements due to a disability** should seek reasonable accommodations from the Office of Disability Services (ODS) during the first week of class.

**Required and/or Recommended Texts and Materials**

All materials are posted in MU online (https://www.marshall.edu/design-center/).

**Technology and Technical Skill Requirements**

- Students must be proficient in the use of computers, the Internet (MU online, Blackboard), browsers, Microsoft Office Word, and other common applications.

- For computer and browser requirements, see “Get Connected” and “Internet Browser” at Student Resources: First Steps. See also IT: Recommended Hardware (URLs: https://www.marshall.edu/design-center/students/ and http://www.marshall.edu/it/recommendations/).

- To check your browsers, use the Blackboard Browser Checker and ensure that you set permissions properly and have all the necessary plug-ins. (URL: https://help.blackboard.com/Learn/Student/Getting Started/Browser_Support/Browser_Checker)
• Students must be able to use Marshall email, as well as Teams®. Blackboard® will not be used.

• Adobe Acrobat Reader may be needed to read some files. This plug-in is available free. (URL: https://get.adobe.com/reader/) See the Tech Support tab in Blackboard for additional information and links.

• Students are required to submit assignments as Microsoft Word documents (.docx), using the most recent Microsoft Office suite. Office 365 is available at no extra charge to students enrolled at MU. For information visit Marshall IT: Office 365 (URL: http://www.marshall.edu/it/office365/).

• See the Tech Support tab in Blackboard for additional information on browsers, technology, and apps.

• For instructions of how to use Microsoft Teams, follow this link: https://www.marshall.edu/it/teams/

Technology Assistance

If you have technical problems, please contact one or more of the following:

• Marshall Information Technology (IT) Service Desk (Help Desk) (URL: http://www.marshall.edu/it/departments/it-service-desk/)
  o Huntington: (304) 696-3200
  o South Charleston: (304) 746-1969
  o Email the IT Service Desk (itservicedesk@marshall.edu)

Learning Objectives

• To consider situations that could be ethically ambiguous and how to approach them,
• To use the primary and secondary literature to find chemical information,
• To learn how to extract information from a research proposal or literature paper,
• To write a research proposal/literature paper and present it, and
• To learn how to maintain a laboratory notebook.
• To demonstrate your understanding and retention of fundamental chemistry concepts.

Desired Learner Outcomes

The table below shows the following relationships: How each student learning outcome will be practiced and assessed in the course.

<table>
<thead>
<tr>
<th>Course student learning outcomes</th>
<th>How students will practice each outcome in this course</th>
<th>How student achievement of each outcome will be assessed in this course</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students will learn about ethics in science</td>
<td>group discussion, in-class exercises, assigned reading, online exam</td>
<td>Ethics paper</td>
</tr>
<tr>
<td>Students will select a topic for their research proposal or literature paper</td>
<td>Lecture, discussions</td>
<td>Research proposal or literature paper</td>
</tr>
<tr>
<td>Students will read and present research publications</td>
<td>Lecture, group discussion</td>
<td>Presentations</td>
</tr>
</tbody>
</table>

Course Policies

By enrolling in this course, you agree to the following course policies:
Attendance/Participation Policy

Attendance is required for all class meetings. While it is possible to make up the missed tutorial in the chemistry literature portion of the class, even excused absences will cause problems in the ethics portion of the class because there is only one meeting per topic. Thus, it will be impossible for you to take away from the class what we hope you will learn if you miss classes. COVID-19 related absence will be treated as an excuse.

Grading Policy

Grading Scale

There are 5 tasks/assignments in this course:

1. writing a literature review or research proposal,
2. presenting the proposal/review to the class,
3. oral presentation of an assigned scientific research publication,
4. taking and passing the CITI ethics course,
5. writing the ethics paper, and
6. participating in the ethics discussion.

The two written assignments (1 and 5) and each oral presentation (2 and 3) will be graded. Each missed assignment will result in a one letter grade reduction in your course grade. Each unexcused absence after the first unexcused absence will result in a letter grade reduction. Graded assignments turned in late will have their grades reduced by one letter grade per day. After three (3) days, the assignment will not be accepted.

Late Work Policy

There are due dates for several ungraded assignments and there will be consequences for turning them in late.

1. If assignments to be turned in for peer review arrive after the designated date and time, they will not be sent out for review, but will be graded as if they were.
2. If your peer review of an assignment arrives after the due date and time, the grade on your paper will be reduced by one-half letter grade for each 12-hour increment.
3. For the CITI ethics course, your course grade will be reduced by one-half grade per 24-hour period after the due/date and time.

Evaluation Criteria

Grading Scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>90-100%</td>
</tr>
<tr>
<td>B</td>
<td>80-89%</td>
</tr>
<tr>
<td>C</td>
<td>70-79%</td>
</tr>
<tr>
<td>D</td>
<td>60-69%</td>
</tr>
<tr>
<td>F</td>
<td>Below 60%</td>
</tr>
</tbody>
</table>

Grading:

- Research Proposal or Literature Review: 40%
- Ethics paper: 40%
- Oral presentation (2, each one worth 10%): 20%

Preface

When a research chemist develops an idea for an experiment, that person will almost always check the literature to find if someone else has already attempted it or something closely related. If not, information about how to go about achieving the researcher’s goal will almost always be found there. Several databases have been compiled to facilitate such searches. Experience will teach you to view each search from several angles, but at the beginning it is important to simply learn what kinds of information are stored in each database and how to retrieve it.
You will do most of your searches on SciFinder Scholar® or PubMed®. After a tutorial, you will learn to search the primary chemical literature by working with one faculty member on a project relating to her or his research.

**Ethics**

Finally, this course has an ethics component. There are several different projects in which you will participate.

1. Students will take and pass the CITI Chemistry Research Ethics course. A link to the instructions to the course appears on the MU online. The course will take a few hours to complete, so do not wait until the end to try it. Students must email me a .pdf copy of the completion certificate when you are done. In rare cases, students have been unable to download the certificate. In this event, take a screenshot and email it to me showing that you passed.

2. Students will be given several written scenarios to read and consider. During the week of January 13th, we will meet in small groups with another faculty member. Students will be asked to describe how you would behave in such a scenario and then we will tell you what we would do. Ethics discussions require 2 hours, there will be several two-hour blocks for you to choose from, but each group is limited to four students.

3. In January, Students will write a paper discussing a scientific ethical problem. We will get together for a class period to discuss each article and go through the papers as a group. Two to three different scientific ethics problems will be discussed. Each student will be assigned a specific problem and write their ethics paper.

4. Students will read another student’s paper before they are graded. Students should incorporate information from the peer reader and group discussion into your paper, if it is appropriate. This is a formal paper and should be written as such.

5. Your grade will be based on your use of English and logic of argument, not on whether the argument is “right” or “wrong.”

6. **Ethics Paper Format:**
   a. The paper is to be at least 2 pages long and be double-spaced with 1-inch margins in either 12-point Times New Roman or 10-point Arial font. There should be no extra spacing following paragraphs and should have only your name at the top of the paper. No more than 5 pages will be allowed for your discussion.
   b. There are 3 primary actors discussed: the student, her/his advisor/mentor, the ‘university’ (which comprises all persons of authority above the advisor as a group). You are to read the article and as much supplementary information as is necessary to decide of who acted least ethically in this series of events.
   c. In the paper, you are to explain why the actor you chose behaved most offensively and to do that you must discuss why it is worse than the other two actors. Although it is your opinion, this is a formal paper and you should not use personal pronouns. For details on how to write a formal opinion, you might read op-ed pieces in a major newspaper like the NY Times or Washington Post.
   d. The paper must have at least two references beyond the article (at least three references total). Reference list does not count towards the page count. If you assert things as true, they must either be in the article or you must have a reference. This includes the sequence of events. That is, if you assert one thing causes a second, the chronology must be correct. Internet references are acceptable for this paper.
   e. Formatting of references should follow ACS Referencing Style 1 (as the Journal of American Chemical Society, JACS):
      https://pubs.acs.org/userimages/ContentEditor/1246030496632/chapter14.pdf.

   **In all cases, ethics discussions are confidential.**

**Research Proposal / Literature Review**

This part of the course will have three components:
1. I will email you the profiles of faculty members to determine which projects might interest you as a Capstone project if you plan to do research. If you plan to do an internship, select a project that seems interesting to you, but it must come from a chemistry department faculty member.

Students should meet with 3 faculty members to discuss their research with them. You must talk and/or email with the person you select and get his or her e-signature or email (due to COVID-19) on the Capstone advisor form (The capstone form will also be attached to that email). If you do not plan a research project and plan to do an internship, Students must choose a chemistry faculty member as a mentor, otherwise there is no restriction. There is a list of approved faculty do perform research in MU online.

Be sure the faculty member you select is willing to mentor you before listing them as your first choice. The faculty will be contacted to corroborate that they can work with you.

2. If the student is already doing research with a mentor, the student will select one project and write a short research proposal describing their proposed capstone project. The proposal must have at least 5 relevant references from the primary literature. The project may have a brief description of preliminary results, but most of the proposal must be about what you plan to do.

3. If the student is not doing research, your 1st choice of a mentor will give you suggestion of various topics and you will write a literature research paper. Review the current scientific literature (in journals, SciFinder, etc.;) find 3-4 recent papers you are interested in investigating further. The topic you will select has to be like your future research. The research paper must demonstrate extensive use of the chemical literature. You may contact your future mentor for suggestions or feedback, but it is not required. Students doing the literature research paper are expected to work independently.

4. Literature review formats: The report will be written in standard ACS style (refer to papers published in the Journal of the American Chemical Society) and will include a brief abstract (4 – 5 sentences, less than 200 words), an introduction explaining the motivation and establishing the significance of the topic along with the objectives of the literature review, context in where the students can discuss the evidence of each article and provide analysis and comparison of the importance of each article to similar ones (why is the research relevant?), conclusions in where students will summarize their main findings, make clear how this review of the literature supports (or not) the research to follow, and may point the direction for further research including characterization techniques and instrumentation you may use, acknowledgments, references, and grade justification. We will address the particulars of each section in class.
   a. It should be 4–5 pages long, employing Times New Roman 12-point font or Arial 10-point font with 1” margins. It should be double spaced with no extra space between paragraphs or section headers. Acknowledgements, references, and grade justification do not count towards the page total. You may include figures but use the ‘wrap-around’ function in your word processor to minimize the space it takes up. Formatting of references (ACS style 1 as JACS) should follow ACS Referencing Style 1 (as the Journal of American Chemical Society, JACS): https://pubs.acs.org/userimages/ContentEditor/1246030496632/chapter14.pdf.

More specific instructions about guidelines will be emailed to you. All documents for the class must be submitted to me via email. I will send an acknowledgement that I have received it. If you don’t receive one the same day, please forward your original email to me.

5. Research proposal formats: The report will be written in standard ACS style (refer to papers published in the Journal of the American Chemical Society) and will include:
   a. Title – Include the title of the project, your name, and the name of your capstone mentor. Do not include a cover letter in the first page.
   b. Abstract – A less than one-page synopsis of your major accomplishments. It may include some information (4 – 5 sentences, less than 200 words) about significance and experimental descriptions.
   c. Introduction – This should provide a brief history of the area of research, its significance, problem, and hypothesis and how your research objectives contribute to it. It should begin at the top of page.
   d. Experimental Section – This describes the experiments you will perform in much the same way a lab manual does. It should also include the equipment you will use. Include materials, procedures, and methods such as characterization techniques. Consult with your advisor to be sure whether or how to cite this information.
e. **Expected Outcomes** – This section will include a succinct description of the experiments and significance of the project you will perform and expectations. This section should include both mathematical and chemical equations where relevant. Include tables of data, figures, and spectra as relevant. All three should have labels. Include future goals of the project.

f. **Summary or Conclusion** – This section will include a summary of the project. Here, student should address whether your semester goals have been met, future work and what you learned this semester.

g. **Acknowledgments** – Acknowledge funding agencies and others that have assisted with the research. Acknowledgment section do not count towards the page total.

h. **References** – This should include literature citations. References do not count towards the page total. You may include figures but use the ‘wrap-around’ function in your word processor to minimize the space it takes up. Formatting of references (ACS style 1 as JACS) should follow ACS Referencing Style 1 (as the Journal of American Chemical Society, JACS): https://pubs.acs.org/userimages/ContentEditor/1246030496632/chapter14.pdf.

i. **Grade Justification** – Briefly, assign yourself a grade based upon the scale set forth at the beginning of the semester and justify it based on your progress for the course. We will address the particulars of each section in class.

   i. It should be 4–5 pages long not including references, employing Times New Roman 12-point font or Arial 10-point font with 1" margins. It should be double spaced with no extra space between paragraphs or section headers. It should be double spaced with no extra space between paragraphs or section headers. Acknowledgements, references, and grade justification do not count towards the page total. You may include figures but use the ‘wrap-around’ function in your word processor to minimize the space it takes up.

   ii. Students must give a draft of the paper to your advisor to comment on at least 3 business days prior to the due date for the assignment (April 11th, 1st draft due for class). The advisor may ask for it earlier than this. The research paper must be reviewed and signed by your faculty mentor and will be read by a student in class before it is turned in for final grading. When you send the proposal to your mentor, send him/her the guidelines for the proposal. The faculty signature should be in the form of an email verifying that s/he has read at least one draft of the proposal/review and provided comments. Changes or comments for the Research paper formulated by the research mentor should be taken in consideration for the final Research proposal file which is submitted in MU online on December 3rd in MU online. Failure to provide an email will result in a one letter grade reduction on the proposal/review.

6. During presentation week (April 11 and 13), each student will listen to each student presenting. Each student will submit a paragraph or two with comments and questions about every presenters’ research. Each student should incorporate information from each students’ peer review into your paper, if it is appropriate. This is a formal paper and should be written as such.

7. **Presentation of your paper**: At the end of the course, all students in this course will make an 8 to 10 minutes presentation on your proposed research or literature review paper. It will be critiqued by two faculty members and the class. Occasionally, presentations require major changes. In those cases, students will have at least a week to make changes and must present them again. In that case, you will be informed of the date of your second opportunity. The presentation grade will be the average of your first and second trial of your presentation. More specific instructions about guidelines will be emailed to you. All documents for the class must be submitted to me via email. I will send an acknowledgement that I have received it. If you don’t receive one the same day, please forward your original email to me.

**Scientific Research Paper Presentation**

All students in this course will be required to present an assigned research paper. The research paper will be assigned by your CHM 305 faculty mentor or CHM 305 instructor. Students will discuss the purpose of the work, the design of the research project used and its operational principles, the data presented, and the conclusions reached. This research paper can be related to the students’ research proposal/review, but it will not be the same presentation.
**Note:** This is the first presentation student will do in class and it is not the same as your research paper you will write and present in class later in April.

Plan the presentation for about 5 to 6 minutes with 2 minutes for questions. This means about 10 slides. The presentation should be organized as follows:

1. Describe the chemical problem, why the analysis is needed and the motivation for the work,
2. Present details of the measurement method (how everything is fit together and how it works)
3. Present and discuss the measurements made and the data presented
4. Review the conclusions from the paper and
5. Offer your perspectives about what the future holds for the measurement method and what chemical or biochemical problems it could be used to help solve.
6. The presentation will be held in Microsoft Teams. Students presenting, must use either a microphone or phone call to give their oral presentation.

As you read through the paper, it may be necessary for you to obtain other literature to understand and explain the work presented. Also, note that when you find the article on the journal website, there is very often is supplemental information that you should access and use in your presentation. At the end of your presentation, list the citations you used. All students will submit the PowerPoint presentation in MU online on **Monday October 25th** by 11:30 am.

**Laboratory Notebooks**

There will be one class meeting to discuss the proper construction of a laboratory notebook.

**Literature Search**

On one or two occasions we will get together to discuss various types of literature references that you may have to make use of during your careers. These include (at a minimum) *Chemical Abstracts, PubMed, Beilstein*, the “Comprehensive,” “Advances in,” “Progress in,” and “Dictionary of” book series, and the *Kirk-Othmer Encyclopedia of Chemical Technology*. There will also be a demonstration of the online *Science Citation Index*. These books and book series constitute major review sources of information which can be very difficult to track down through the primary literature. We will discuss how to read a scientific paper in one of these meetings.
Course Requirements/Due Dates

<table>
<thead>
<tr>
<th>EVENT</th>
<th>SUBMISSION / GUIDELINES</th>
<th>DEADLINE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class Orientation</td>
<td>Attendance signature required</td>
<td>January 12</td>
</tr>
<tr>
<td>Advisor Selection</td>
<td>Turn in fillable forms by email before 5:00 pm</td>
<td>January 21</td>
</tr>
<tr>
<td>Draft Ethics Paper</td>
<td>Submit by email to me by 11:59 pm</td>
<td>February 18</td>
</tr>
<tr>
<td>Peer Review of Ethics Paper</td>
<td>Submit by email to me by 11:59 pm</td>
<td>February 25</td>
</tr>
<tr>
<td>Final draft of Ethics Paper</td>
<td>Submit by email to me by 11:59 pm</td>
<td>March 4</td>
</tr>
<tr>
<td>CITI Ethics course</td>
<td>Certificate Submitted by email to me before 5:00 p.m.</td>
<td>March 21</td>
</tr>
<tr>
<td>PowerPoint slides for</td>
<td>Submit by email to me by <strong>11:30 am</strong></td>
<td>March 21</td>
</tr>
<tr>
<td>scientific paper presentation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Send Research proposal draft to</td>
<td>Submit by email to mentor and cc me in the email</td>
<td>April 6</td>
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<tr>
<td>mentor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Draft Research Proposal/Literature Review</td>
<td>Submit in MU online/Course Content folder by 11:59 pm</td>
<td>April 11</td>
</tr>
<tr>
<td>Paragraph with comments/questions</td>
<td>Submit in MU online/Course Content folder by 11:59 pm</td>
<td>April 18</td>
</tr>
<tr>
<td>about Research presentations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Final Draft of Research Proposal</td>
<td>Submit in MUOnline/Course Content folder by 11:59 pm</td>
<td>April 28</td>
</tr>
<tr>
<td>Literature Review</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Tentative Course Schedule

<table>
<thead>
<tr>
<th>Dates</th>
<th>Guide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday Jan. 12</td>
<td>Introduction – How to pick a research advisor and topic. Send Doodle survey</td>
</tr>
<tr>
<td>Wednesday Jan. 19</td>
<td>How to use SciFinder® and PubMed® &amp; sources and kinds of literature</td>
</tr>
<tr>
<td>Wednesday Jan. 26</td>
<td>A Brief History of Ethics</td>
</tr>
<tr>
<td>Wednesday Feb. 2</td>
<td>*</td>
</tr>
<tr>
<td>Wednesday Feb. 7 and 9</td>
<td>Ethics vignettes discussed all week (2-3 students per session)</td>
</tr>
<tr>
<td>Wednesday Feb. 16</td>
<td>How to write a laboratory notebook and research paper: figures and tables. ACS reference style 1.</td>
</tr>
<tr>
<td>Wednesday Feb. 21 and 23</td>
<td>Discussion of issues raised in ethics paper (1/2 of class each day)</td>
</tr>
<tr>
<td>Wednesday Mar. 2</td>
<td>Introduction to Research: Expectations, mentor, capstone experience, presentations</td>
</tr>
<tr>
<td>Wednesday Mar. 16</td>
<td>Spring break</td>
</tr>
<tr>
<td>Friday March 25</td>
<td>Last day to withdraw from an individual full-semester course</td>
</tr>
<tr>
<td>Mar. 30</td>
<td>Making a professional presentation and a poster</td>
</tr>
<tr>
<td>Apr. 4 and 6</td>
<td>Presenting your assigned scientific publication (attend both)</td>
</tr>
<tr>
<td>Wednesday Apr. 13</td>
<td>Feedback and major comments about the presentations. Questions about the research paper</td>
</tr>
<tr>
<td>Apr. 18 and 20</td>
<td>Research proposals/reviews presented all week (must attend both sessions) and peer-reviewed paragraph</td>
</tr>
<tr>
<td>Wednesday Apr. 28</td>
<td>Presenting your Research Proposal/ Review makeup</td>
</tr>
</tbody>
</table>

*There is no class meeting on these days under normal circumstances. Should campus be closed on the date of a class meeting, these days will be used in place of the missed day.*

**This schedule is subject to change. Changes, if necessary, will be announced in class**

## University Policies

(QM Standard 1.4) By enrolling in this course, you agree to the University Policies. Please read the full text of each policy (listed below) by going to [MU Academic Affairs: University Policies](http://www.marshall.edu/academic-affairs/policies/).

- Academic Dishonesty Policy
- Academic Dismissal Policy
- Academic Forgiveness Policy
- Academic Probation and Suspension Policy
- Affirmative Action Policy
- Dead Week Policy
- D/F Repeat Rule
- Excused Absence Policy for Undergraduates
- Inclement Weather Policy
- Sexual Harassment Policy
- Students with Disabilities (Policies and Procedures)
- University Computing Services Acceptable Use Policy
Students with Disabilities

(QM Standard 7.2) For University policies and the procedures for obtaining services, please go to MU Academic Affairs: University Policies and read the section, Students with Disabilities. (URL: http://www.marshall.edu/academic-affairs/policies/)

Additional Policies:

I have an Open Communication Policy: If you are having any questions class related please do not hesitate to email me or come by my office.

Three of the assignments for this class require you to be present and cannot be replicated because they involve group participation. Even with an excused absence, your grade will be reduced by a letter grade if you cannot make alternative arrangements with me by the first 24 hours occurring after the student is permitted to return to campus.

The papers are due on the date indicated in the syllabus. The papers cannot be made up unless the student presents a university-approved excuse to the instructor by the first 24 hours occurring after the student is permitted to return to campus. Likewise, if an assignment falls on a day that is cancelled by the university (e.g. a snow day), it should be turned in on time.

Plagiarism Statement (Academic Affairs Policy): Plagiarism is submitting as one’s own work or creation any material or an idea wholly or in part created by another. This includes:

- Oral, written, and graphical material.
- Both published and unpublished work.

It is the student’s responsibility to clearly distinguish his/her own work from that created by others. This includes the proper use of quotation marks, paraphrasing and the citation of the original source. Students are responsible for both intentional and unintentional acts of plagiarism.

Sanction: Sanctions for academic dishonesty may be imposed by the instructor of the course. Sanction for academic dishonesty may be imposed even if a student withdraws from an individual course or from the university entirely. The instructor may impose the following sanctions:

- A lower or failing project/paper/test grade
- A lower final grade
- Failure of the course
- Exclusion from further participation in the class (including laboratories or clinical experiences).