

# Chemistry 6980: Introduction to Chemical Research

**MW 6:00-7:15 pm WB 5<sup>th</sup> Floor Computer Lab**

**Instructor:** Professor Douglas T Genna  
**Office:** 5009 Ward Beecher  
**Office Hours:** TBD  
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*“Asking a question may lead to a temporary embarrassment, but not asking the question will lead to a permanent embarrassment”*

## **General**

The goal of this class is to introduce you to the basics of conducting research ethically, responsibly, and thoroughly.

## **Textbooks**

Ethics in Science 2<sup>nd</sup> Edition by John G. D'Angelo

## **Learning Outcomes:**

To learn how to read scholarly papers and distill out the most important information.

To learn how to present such papers to an audience briefly.

To learn about academic misconduct and how to avoid it.

## **Grades: Class is out of 230 points**

In class literature presentations (100 points)

Participation (130 points)

## **In class literature presentations**

Each Wednesday you will have to prepare 2-slides, sent to me in advance so they can be loaded on the computer, on a journal article that was published in the most recent issue of Journal of the American Chemical Society, Chemical Science, or Angewandte Chemie, International Edition. You will have five minutes to explain your article. The first slide will be on why is this article important (what question are they addressing). The second slide will be on what they discovered or reported. Each week it is your responsibility to pick an article, read it thoroughly, and present it to the class. You will be graded on how well you explain the article in the allotted time.

## **Participation:**

There are 13 non-presentation based classes throughout the term. Each class you will receive a possible 10 points for participation. These can be earned some times by engaging in discussion or finishing an in class worksheet.

## **Statement of Non-Discrimination from the University:**

Youngstown State University does not discriminate on the basis of race, color, national origin, sex, sexual orientation, gender identity and/or expression, disability, age, religion or veteran/military status in its programs or activities. Please visit the Equal Opportunity and Policy Development & Title IX website for contact information for persons designated to handle questions about this policy.

## **Student Accessibility**

In accordance with University procedures, if you have a documented disability and require accommodations to obtain equal access in this course; please contact me privately to discuss your specific needs. To coordinate reasonable accommodations, you must be registered with the Accessibility Services, located in Kilcawley Center Room 2082. You can reach Accessibility Services at 330-941-1372

## **Academic Integrity/Honesty**

As outlined in The Student Code of Conduct, all forms of academic dishonesty are prohibited at Youngstown State. This includes plagiarism, the unauthorized use of tools or notes in taking tests or completing assignments, fabrication of data or information used for an assignment, working with others without permission from the instructor, and more. A student who is believed to have violated the academic integrity policy will meet with the instructor to discuss the allegations. The student may accept responsibility for the violation and any sanctions selected by the instructor, or they have the right to ask for a hearing before a hearing panel. The full Academic Integrity Policy can be found in Article III of The Student Code of Conduct, while further information on University procedures for alleged academic integrity violations can be found in Article V.

**If you are caught cheating, you will at least be given an F grade on that particular assignment and perhaps for the entire course. Do not jeopardize your future by cheating.**

## **Incomplete Grade Policy**

An incomplete grade of "I" may be given to a student who has been doing satisfactory work in a course, but, for reasons beyond the control of the student and deemed justifiable by the instructor, has not completed all requirements for a course when grades were submitted. A letter grade MAY NOT be changed to an "I" (Incomplete) after the term has ended and grades have been recorded. For Fall Term courses, the final date to complete an "I" will be March 1 of the following term; for Spring Term courses, September 1; for Summer Term courses, October 1. These dates can only be extended with the approval of the instructor and the Dean of the College where the course is taught. Forms for extension of the deadline may be obtained and after obtaining the proper signatures, this form must be submitted to the University Records office 24 hours before the original deadline (i.e. for Fall Term courses, March 1 of the following term).

## **Classroom Safety and Health Protocols (COVID-19)**

Youngstown State University has been and will continue to implement evidence-based protocols to monitor and suppress coronavirus in accordance with public health guidelines. YSU will work directly with local public health officials to determine what guidelines are appropriate to implement within the context of our local community and will update protocols as needed. Faculty and students are expected to abide by all safety and health policies implemented by the University's Office of Environmental Occupational Health and Safety as well as all applicable local, state, and federal mandates. YSU recommends that all faculty and students become fully vaccinated. Everyone must continue to perform a daily health assessment and report COVID through the reporting form to YSU COVID Support Staff. The following COVID-19 protocols must be considered during the current coronavirus pandemic for Fall 2021 instruction.

### **GENERAL CLASSROOM GUIDELINES**

All individuals, regardless of vaccination status are required to wear face coverings in indoor public settings on campus

Individuals on campus are encouraged to physically distance according to their personal needs

Disinfecting wipes/sprays will be provided in classrooms that are used for face-to-face course instruction

Faculty and students should wipe down their work areas at the beginning and end of each class

Any concerns/issues should be communicated immediately to EOHS

### **INSTRUCTOR SAFETY PROCEDURES**

Faculty must use assigned seating in their classrooms to help contact tracing if a fellow classmate were to be exposed to COVID-19

Daily attendance must be performed to determine which students are present for the class to help contact tracing fellow classmates

Faculty should use hand sanitizer before and after touching computers or other shared classroom items.

Faculty using classroom technology such as computers should sanitize the keyboard, mouse etc. prior to use

### **STUDENT SAFETY PROCEDURES**

Students must always follow the YSU Safety and Health Guidelines while on campus and attending class

Students should wash their hands frequently in between classes and use hand sanitizer as needed

If you must cough or sneeze, be sure to cover your mouth even with a mask on, using your arm at the elbow joint

Given the uncertainties surrounding the ongoing coronavirus pandemic, these protocols are subject to change based on state and federal health guidelines. Changes will be communicated promptly through the usual communications channels. Please visit the University Coronavirus Information page for more information.

Date	Topic
8/30	Intro to Class/SciFinder Account and SciFinder Worksheet
9/1	Safety with Tim Styranec
9/6	No Class Labor Day
9/8	Safety with Tim Styranec
9/13	<b>Ethics in Science Chapter 1</b>
9/15	No Class
9/20	<b>Ethics in Science Chapter 2</b>
9/22	Literature Presentation 1
9/27	<b>Ethics in Science Chapter 3</b>
9/29	Literature Presentation 2
10/4	<b>Ethics in Science Chapter 6 &amp; 7</b>
10/6	Literature Presentation 3
10/11	<b>Ethics in Science Chapter 9</b>
10/13	Literature Presentation 4
10/18	<b>Ethics Case Studies 1</b>
10/20	Literature Presentation 5
10/25	<b>Ethics Case Studies 2</b>
10/27	Literature Presentation 6
11/1	<b>Ethics Case Studies 3</b>
11/3	Literature Presentation 7
11/8	<b>Ethics Case Studies 4</b>
11/10	Literature Presentation 8
11/15	<b>Ethics Case Studies 5</b>
11/17	Literature Presentation 9
11/22	No Class
11/24	No Class Thanksgiving
11/29	Literature Presentation 10
12/1	No Class
12/6	No Class
12/8	No Class