**IE 498 RCR “Responsible Conduct of Research” Spring 2025**

 **1 hour of credit for undergraduate students and graduate students**

This course provides a broad overview of policies and practices for the responsible and ethical conduct of research, including ethical foundations, research integrity and misconduct, risk assessment, authorship and publication ethics, data management, conflicts of interest, and research with human and animal subjects.

**Instructors**: Dr. Patricia M. Jones, pmjones5@illinois.edu and Dr. Christopher Lehmann, clehmann@illinois.edu

**Office Hours**: By request. **Class website:** <https://canvas.illinois.edu/courses/52422> **Lecture/Discussion**: Mondays 3:00pm in 203 Transportation Building

**Textbook (optional):** Shamoo, AE and Resnik, DB (2022). *Responsible Conduct of Research* *(Fourth Edition)*. Oxford University Press. ISBN 978-0-19-754709-0

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| **Policy Reminders (and also see** [**https://studentcode.illinois.edu/**](https://studentcode.illinois.edu/)**)** * **Academic Integrity:** It is expected that your exams, quizzes, and assignments will contain only your own work. Any student who misrepresents their work in an exam, quiz, or assignment will receive a grade of zero on that exam, quiz, or assignment; other sanctions may also be pursued, as allowed by University policy.Academic Integrity Policy:[*http://provost.illinois.edu/policies/policies/academic-integrity/*](http://provost.illinois.edu/policies/policies/academic-integrity/)
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* **Students with Disabilities:** All reasonable accommodations required for students with disabilities provided, as ensured by Article 1, Part 1 of the Student Code. Please provide Dr. Jones with your DRES Letter of Accommodations by the end of the first full week of class regarding accommodations in order to ensure their availability.
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**Grading Scale: Straight: A:** 90+ A, **B:** 80-89, **C**: 70-79; **D**: 60-69; **F**: 59 and below.

**Grade Determination**

* 50% in-class exercises/quizzes: Each quiz worth 5 points. There are 14 total in the semester and your grade is based on the top 10. So, you can skip or drop four quizzes, and each of the rest is 5% of your final grade.
* 50% homework assignments: Each worth 5 points. There are 14 total in the semester and your grade is based on the top 10. So, you can skip or drop four homeworks, and each of the rest is 5% of your final grade.

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| **Item** | **Points out of Maximum Points** |
| In-class Exercises/Quizzes | (sum of top 10 scores) out of maximum 50 points |
| Homework | (sum of top 10 scores) out of maximum 50 points |
| Final Grade based on | Summation of all of the above, out of max 100 points |

**Schedule for Spring 2025**

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| **Dates**  | **Discussion Topic** |
| Jan 27 | 1. Foundations of moral reasoning and ethical decision making
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| Feb 3 | 1. Engineering ethics and safety engineering
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| Feb 10 | 1. Research misconduct
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| Feb 17 | 1. Conflicts of interest and commitment
 |
| Feb 24 | 1. Research climate and culture; mentorship
 |
| March 3 | 1. Data Management Part 1
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| March 10 | 1. Data Management Part 2
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| March 17 | *No class - Spring Break*  |
| March 24 | 1. Publications and Authorship
 |
| March 31 | 1. Statistical analysis
 |
| April 7 | 1. Generative AI
 |
| April 14 | 1. Research with human subjects
 |
| April 21 | 1. Research with animals
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| April 28 | 1. Laboratory safety
 |
| May 5 | 1. Research for the public good
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