

Spring 2-1-2019

# CHMY 568.01: Organometallic Chemistry

Dong Wang

*University of Montana, Missoula, [dong1.wang@umontana.edu](mailto:dong1.wang@umontana.edu)*

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**Goals:** This course will focus on basic elements of organometallic chemistry for main group and transition metals, including bonding, structure, reaction and application.

**When/Where:** Tuesday 1-2:15pm and Friday 11am-12:15pm, in Chemistry 204

**Instructor:** Dong Wang, Chem 217, x4290, [dong1.wang@umontana.edu](mailto:dong1.wang@umontana.edu)

**Office Hours:** By appointment

**Text:** Christoph Eischenbroich, *Organometallics*, 3<sup>rd</sup> ed., Wiley-VCH

**Evaluation:**

a) one-minute paper by email – 250 points	25% of grade
b) Two 1-hour in-class exams – 100 points each	20% of grade
c) Final take-home exam – 300 points	30% of grade
d) Final presentation – 250 points	25% of grade

**Course Content and Exam Date Overview:**

<b>Topic</b>	<b>Text</b>
Transition Metal Organometallics	Chap. 12-15
Organometallic Reactions	Chap. 18
Main Group Organometallics	Chap. 4-11
<b>Exam 1 (Tuesday, Feb. 19)</b>	
<b>Exam 2 (Friday, April. 12)</b>	
<b>Final Exam (Take-home April. 26-30)</b>	
<b>Final Presentation (Tuesday, April 30)</b>	

### Course Notes:

- Each one-minute paper is due by email to [dong1.wang@umontana.edu](mailto:dong1.wang@umontana.edu) within 24 hours of each class, except for the two exam classes or otherwise noted. Use 2-3 sentences to summarize the contents covered in class and ask any question you might have.
- The final exam is comprehensive and take-home. The exam will be handed out at the end of the last class on April 26 and the answers will be collected at the beginning of the final presentation on April 30. You are required to work independently on the final exam.
- If you have a legitimate conflict with an exam date, you must inform the instructor **at least 1 week before the exam** to make alternate arrangements. Missed exams will receive a grade of zero.
- The  $\pm$  grading system will be employed.
  - See the [Catalog for Academic Policies and Procedures](#) which includes grading policies
- See the [Student Conduct Code](#) for the definition and potential consequences of academic misconduct and plagiarism.
- Information on disability accommodations is available on the [University of Montana Accessibility Website](#).

### Tentative Schedule

Month	Day	Topic
January	11	Introduction
	15, 18	
	22, 25	
	29	Transition metal organometallics
February	1	
	5, 8	
	12, 15	
	<b>19</b>	<b>Exam 1</b>
March	22	
	26	
	1	Organometallic reactions
	5, 8	
	12, 15	
April	19, 22	
	<b>26, 29</b>	<b>Spring Break, no class</b>
	2, 5	Organometallic reactions
	9	
April	<b>12</b>	<b>Exam 2</b>
	16, 19	Main group organometallics
	23, 26	
	<b>30</b>	<b>Final Presentation</b>