

**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 and Thursday 2:30-3:45pm, in SB336

**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

**Course website:** [Moodle](#)

**Evaluation:**

a) 26 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 (Thursday, Oct. 6)</b>	
<b>Exam 2 (Thursday, Nov. 22)</b>	
<b>Final Exam (Take-home Dec. 9-14)</b>	
<b>Final Presentation (Thursday, Dec. 15)</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. 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 Dec. 8 and the answers will be collected at the beginning of the final presentation on Dec. 15. 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
August	30	Introduction
September	1	
	6, 8	
	13, 15	Transition metal organometallics
	20, 22	
	27, 29	
October	4	
	6	<b>Exam 1</b>
	11, 13	
	18, 20 25, 27	Organometallic reactions
November	1, 3	
	8	<b>Election Day, no class</b>
	10	
	15, 17	Organometallic reactions
	22	<b>Exam 2</b>
	24	<b>Thanksgiving Break, no class</b>
December	29	
	1	Main group organometallics
	6, 8	
	15	<b>Final Presentation</b>