

All lectures held in Keck Auditorium: 8:00 am – 9:30 am (unless specified otherwise)  
This class consists of 21 Lectures, 3 Seminars, and 3 Review sessions.

**Lecture 1:** Monday, April 3<sup>rd</sup> – General Reactivity I

**Lecture 2:** Wednesday, April 5<sup>th</sup> – General Reactivity II

**Lecture 3:** Friday, April 7<sup>th</sup> – General Reactivity III

**Lecture 4:** Monday, April 10<sup>th</sup> – Pyrroles

**Lecture 5:** Wednesday, April 12<sup>th</sup> – Pyrroles/Furans/Thiophenes

**Lecture 6:** Friday, April 14<sup>th</sup> – Indoles

**Review Session #1:** Wednesday, April 19<sup>th</sup>

**Lecture 7:** Monday, April 24<sup>th</sup> – Indoles/Benzofurans

**Lecture 8:** Wednesday, April 26<sup>th</sup> – Pyridines

**Lecture 9:** Friday, April 28<sup>th</sup> – Pyridines/Quinolines

**Lecture 10:** Monday, May 1<sup>st</sup> – Case Studies

**Lecture 11:** Wednesday, May 3<sup>rd</sup> – Pyryliums/Pyrones

**Midterm:** Friday, May 5<sup>th</sup>

**Lecture 12:** Friday, May 12<sup>th</sup> – Di-, Tri-, and Tetrazines – [PROBLEM SET 1 DUE]

**Lecture 13:** Monday, May 15<sup>th</sup> – 1,3-Azoles

**Lecture 14:** Wednesday, May 17<sup>th</sup> – 1,2-Azoles

**Lecture 15:** Thursday, May 18<sup>th</sup> – 1,2-Azoles

**Seminar:** **Monday**, May 22<sup>nd</sup> – Guest Lecturer Martin Eastgate

**Seminar:** **Wednesday**, May 24<sup>th</sup> – Guest Lecturer Martin Eastgate

**Lecture 16:** Thursday, May 25<sup>th</sup> – Purine Case Studies

**Seminar:** **Friday**, May 26<sup>th</sup> – Guest Lecturer Martin Eastgate **2:00 pm – 3:00 pm**

**Lecture 17:** Tuesday, May 30<sup>th</sup> – Benzodiazepines

**Lecture 18:** Wednesday, May 31<sup>st</sup> – Alkaloid Biosynthesis 101

**Lecture 19:** Friday, June 2<sup>nd</sup> – Azoles/Bridging Heterocycles

**Lecture 20:** Monday, June 5<sup>th</sup> – Heterocyclic Potpourri

**Lecture 21:** Tuesday, June 6<sup>th</sup> – Heterocyclic Millionaire - [PROBLEM SET 2 DUE]

**Review Session #2:** Thursday, June 8<sup>th</sup>

**Review Session #3:** Friday, June 9<sup>th</sup>

**Final:** Tuesday, June 12<sup>th</sup> – [Project DUE]

**Texts:** Joule and Mills, "Heterocyclic Chemistry",  
Ishihara, Montero, and Baran, "The Portable  
Chemist's Consultant: A Survival Guide for  
Discovery, Process, and Radiolabeling"

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Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Apr-2	Apr-3	Apr-4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	May-1	May-2	May-3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
					Graduation Day	
21	22	23	24	25	26	27
28	29	30	31	Jun-1	Jun-2	Jun-3
	Memorial Day					
4	5	6	7	8	9	10
11	12	13	14	15	16	17
		= Guest Lecture		= Class		= Midterm or Final

**Grades:** Midterm (35%), Final (35%), Problem Sets/Project (30%)

**Midterm and Final are open note exams**

**Definition of "open notes":** Only handwritten notes (from lectures and any other source), no copies allowed.

Lecture summaries are the only handouts permitted during test.

**Heterocycle Project**

Details to follow.