

Tentative Syllabus (as of 08/20)

Instructor	Dr. Joachim G. Schantl Office: Sisler 329A. Phone: (352) 392-9131. E-mail: jschantl@chem.ufl.edu .
Office Hours	Monday, Wednesday, 8 th period (3:00 – 3:50 p.m.), Friday, 3 rd period (9:35 – 10:25 a.m.), Sisler Hall 329. Or by appointment: Please inquire by e-mail, include “CHM 5235” or “CHM 4230” in the subject line and suggest 2 or 3 times/dates in your message.
e-Learning site	https://lss.at.ufl.edu/ Updated regularly with Announcements, Gradebooks (scores), Resources (syllabus, lecture notes, problem sets, exams, handouts, etc.).
Text	(1) “ Organic Structure Analysis ”, 2 nd Ed. (Crews, Rodriguez, Jaspars) (2) “ Structure Determination of Organic Compounds ”, 4 th Ed. (Pretsch, Bühlmann, Radertscher)
Books on Reserve	Sign in to https://ares.uflib.ufl.edu/ to see the books available for two-hour check-out at the Marston Science Library.
Prerequisites	One year of Organic Chemistry (e.g., CHM 2210 / 2211) is necessary.
Lecture	M, W, F 6 th period (12:50–1:40 p.m.) in Leigh 207.
Course topics	I. Strategies for Compound Identification II. Nuclear Magnetic Resonance (¹ H, ¹³ C, other nuclei, 1D and 2D experiments) III. Infrared Spectroscopy IV. Mass Spectrometry V. Ultraviolet / Visible Spectroscopy VI. Electron Paramagnetic Resonance
Class notes	Class notes will be posted on e-Learning at least the day before the first class that needs them. Revised notes (as necessary) will be posted there as well.
Problem Sessions	F 6 th period (12:50–1:40 p.m.) in Leigh 207. Problem sessions attendance and participation is required for CHM 5235 students; participation will be graded. CHM 4230 students are strongly encouraged to attend the problem session.
Problem sets	Problem sets will be posted on e-Learning roughly a week before the associated problem session. CHM 5235 problem sets are not collected. CHM 4230 problem sets are due at the beginning of the associated problem session (students may keep a copy) and can be turned in either in class or in my office prior to class.
Exams	Exams are take home. They will be web posted after class on Monday, Sept. 26; Monday, Nov. 14; Monday, Dec. 5. Exams are due at the beginning of the next class period (the following Wednesday).

Grading:	CHM 5235		CHM 4230	
	Exam 1	20%	Exam 1	20%
	Exam 2	25%	Exam 2	25%
	Exam 3	35%	Exam 3	35%
	Problem session *	20%	Problem sets**	20%

*CHM 5235 students: Participation in the problem sessions is graded; problem sets are not collected.

**CHM 4230 students: Problem sets are collected (grading on problem sets is pass/fail).

Participation in the problem session is not required. However, attendance at the problem sessions is strongly encouraged.

Grading Scale:

Letter Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	E
Score Required	92%	90%	87%	83%	80%	77%	73%	70%	65%	60%	55%	<55%

Classroom etiquette Please come to class on time and adjust your cell phone so that it does not ring.

Student honor code See the UF Student Guide <http://www.dso.ufl.edu/studentguide/> for details.

We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.

On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment."

Tentative course schedule (as of 08/20)

Monday		Wednesday		Friday	
08/22	Spectroscopy intro	08/24	NMR intro, basic theory	08/26	NMR basic theory
08/29	¹ H chemical shift	08/31	¹ H chemical shift	09/01	PS #1
09/05	<i>Labor Day – No classes</i>	09/07	¹³ C chemical shift	09/09	PS #2
09/12	¹³ C chemical shift, ¹ H coupling	09/14	¹ H coupling/equivalence	09/16	¹⁹ F NMR (Prof. W. Dolbier)
09/19	¹ H coupling	09/21	¹ H coupling	09/23	PS #3
09/26	dynamic NMR – Exam #1 posted	09/28	Exam #1 due – 1D multiple pulse	09/30	1D multiple pulse
10/03	2D NMR	10/05	2D NMR	10/07	PS #4
10/10	2D NMR	10/12	2D heteronuclear correlation	10/14	PS #5
10/17	2D homonuclear correlation	10/19	TBA	10/21	TBA
10/24	MS	10/26	MS	10/28	PS #6
10/31	MS	11/02	MS	11/04	<i>Homecoming – No classes</i>
11/07	TBA	11/09	TBA	11/11	<i>Veterans Day – No classes</i>
11/14	IR – Exam #2 posted	11/16	Exam #2 due – IR	11/18	TBA
11/21	IR	11/23	TBA	11/25	<i>Thanksgiving – No classes</i>
11/28	UV	11/30	UV, ORD, CD	12/02	PS #7
12/05	Integrated problems – Exam #3 posted	12/07	Exam #3 due – TBA		