



**CHE 511 – 001 : Natural and Medicinal Product Synthesis  
Fall 2009**

**Instructor :** Prof. K.C. Russell

**Office :** Natural Science Center 350

**Internet:** [www.nku.edu/~russellk](http://www.nku.edu/~russellk)

**Course web page:** [www.nku.edu/~russellk/511.html](http://www.nku.edu/~russellk/511.html)

**e-mail :** [russellk@nku.edu](mailto:russellk@nku.edu)

**Phone :** (859) 572 - 6110

**What you need:** Organic Synthesis, The Disconnection Approach  
2<sup>nd</sup> ed. Stuart Warren & Paul Wyatt

**Prerequisite:** A grade of “C” or better in CHE 311

**Course Times:** Monday & Wednesday 2:00 - 3:15 PM; SC 201

**Office Hours:** M 9:00 – 10:00 AM; T 11:00 AM – 12:00 PM; W 10:00– 11:00 AM;  
Drop by anytime, I have an open door policy.  
I want to be sure to find me outside of office hours, please make an appointment.

**Grading Policy:** Points in the class will be awarded as follows:

Activity	points
Homework and in class activities	300,000
Mid-term exam ( $\approx$ Oct 29)	200,000
Presentation	100,000
Final Exam (Dec 14, 1:00 PM)	400,000
Total	1,000,000

Your final letter grade will be assigned based on the following curve:

	A ( $\geq$ 86.00 %)	A- (83.00 – 85.99 %)
B+ (80.00 – 82.99 %)	B (76.00 – 79.99 %)	B- (73.00 – 75.99 %)
C+ (69.00 – 72.99 %)	C (64.00 – 68.99 %)	C- (60.00 – 63.99 %)
D+ (55.00 – 59.99 %)	D (50.00 – 54.99 %)	
	F ( $\leq$ 49.99 %)	

**Learning Outcomes:** At the end of this lecture course students should be able to

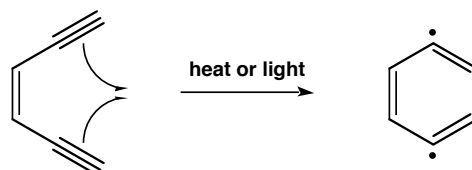
- 1) understand the types of reactions and stereochemical implications of those reactions as applied to the preparation of natural and medicinal compounds of intermediate complexity.
- 2) become familiar with starting materials generally available for use in organic synthesis
- 3) analyze and evaluate organic molecules of intermediate complexity found in the literature.
- 4) integrate the understanding of reactions and evaluation of organic molecules to coherently disconnect an organic target and present its rational synthesis.

**Disability Services** Students with disabilities who require accommodations (academic adjustments, auxiliary aids or services) for this course must register with the Disability Services Office. Please contact the Disability Service Office immediately in the University Center, Suite 320 or call 859-572-6373 for more information. Verification of your disability is required in the Disability Services Office for you to receive reasonable academic accommodations. Visit the Disability Services website at [www.nku.edu/~disability/](http://www.nku.edu/~disability/).

**Academic integrity** The work in this course is subject to The *Northern Kentucky University Student Honor code*. The Honor Code is a commitment to the highest degree of ethical integrity in academic conduct, a commitment that, individually and collectively, the students of Northern Kentucky University will not lie, cheat, or plagiarize to gain and academic advantage over fellow students or avoid academic requirements.

The *Northern Kentucky University Student Honor code* will be strictly enforced in this class. Cheating is an extremely serious offense and will not be tolerated! Any unauthorized assistance on an examination or homework is considered cheating. In accordance with the *Code of Student Rights and Responsibilities*, faculty members have the right to determine actions to be taken when a student is caught cheating. Penalties for cheating can range from, but are not limited to, scores of zero on individual assignments or exams to expulsion from the University and does include failure of the course.

**Classroom Decorum:** PDAs, cell phones, pagers, calculators, and mp3 players are not to be used during the period unless specifically requested by the professor. Electronic communication devices must be in a quiet mode during class. In addition, laptop computers are not to be used unless students are using them to view on-line overheads, follow the textbook or for other class-related activities. Students found using laptop computer for non-class activities during the class period will no longer be allowed to use their laptops in class.



**The Bergman Cyclization**

Note: This syllabus is subject to change  
Last revised : August 23, 2009