

27215 - Organic Chemistry II

Información del Plan Docente

Academic Year	2016/17
Academic center	100 - Facultad de Ciencias
Degree	452 - Degree in Chemistry
ECTS	12.0
Course	3
Period	Annual
Subject Type	Compulsory
Module	---

1. Basic info

1.1. Recommendations to take this course

1.2. Activities and key dates for the course

2. Initiation

2.1. Learning outcomes that define the subject

2.2. Introduction

3. Context and competences

3.1. Goals

3.2. Context and meaning of the subject in the degree

3.3. Competences

3.4. Importance of learning outcomes

4. Evaluation

5. Activities and resources

5.1. General methodological presentation

5.2. Learning activities

5.3. Program

Enols and enolates

27215 - Organic Chemistry II

Alkylation of enolates

Reaction of enolates with aldehydes and ketones

Acylation of enolates

Conjugate addition of enolates

Compounds of phosphorus

Compounds of sulfur

Compounds of silicon

Reductions

Oxidations

Heterocyclic compounds

Carbohydrates

Amino acids, peptides and proteins

Polymers

27215 - Organic Chemistry II

5.4.Planning and scheduling

5.5.Bibliography and recommended resources

- BB** Clayden, J.. Organic Chemistry. 2^a ed. Oxford University Press. 2012
- BB** McMurry, John. Química orgánica / John McMurry ; traducción, María Aurora Lanto Arriola, Jorge Hernández Lanto ; revisión técnica, Alfredo Vázquez Martínez...[et al.] . - 7^aed. México D.F. : Cengage Learning, cop.2008
- BB** Organic chemistry / Jonathan Clayden ... [et al.] . - Repr. with corr. Oxford : Oxford University Press, 2005
- BB** Solomons, T. W. Graham. Organic chemistry : international student version / T. W. Graham Solomons, Craig B. Fryhle, Scott A. Snyder . 11th ed. Singapore : John Wiley & Sons, cop. 2014
- BB** Vollhardt, K. Peter C.. Química orgánica : estructura y función / K. Peter C. Vollhardt, Neil E. Schore ; traducción y coordinación, David Andreu Martínez . - 5^a ed. Barcelona : Omega, D.L. 2007
- BB** Wade, Leroy Grover, jr. Química orgánica (2 vol.) / L. G. Wade, Jr. ; traducción Ma. Aurora Lanto Arriola, Laura Fernández Enríquez . 7^a ed. México : Pearson, cop. 2012
- BB** Wade, Leroy Grover, Jr.. Química orgánica / L. G. Wade, Jr. ; traducción y revisión del texto por Ángel Manuel Montaña Pedrero, Consuelo Batalla García . - 5^a ed. Madrid [etc.]: Pearson/Prentice Hall, D.L. 2004
- BC** Carey, Francis A.. Advanced organic chemistry. Part A, Structure and mechanisms / Francis A. Carey and Richard J. Sundberg . - 5th ed. New York [etc.]: Springer, cop. 2007
- BC** Carey, Francis A.. Advanced organic

27215 - Organic Chemistry II

chemistry. Part B, Reactions and synthesis
/ Francis A. Carey and Richard J.
Sundberg . - 5th ed. New York [etc.] :
Springer, cop. 2007

BC Carruthers, W.. Modern methods of
organic synthesis / W. Carruthers, Iain
Coldham . - 4th ed., repr. Cambridge [etc.]
: Cambridge University Press, 2005

BC Davies, David T.. Aromatic heterocyclic
chemistry / David T. Davies . - Repr. with
corr. Oxford [etc.] : University Press, 2004

BC Davis, B.G.; Fairbanks, A.J.. Carbohydrate
Chemistry. Oxford University Press, 2002

BC Jones, John. Amino Acid and Peptide
Synthesis. 2nd. ed. Oxford University
Press, 2002

BC Sainsbury, M.. Heterocyclic Chemistry.
Royal Society of Chemistry, 2001

BC Smith, Michael B.. Organic Synthesis. 3rd.
ed. Wavefunction, 2011

Online resource s:

<http://www.organic-chemistry.org/reactions.htm>

<http://www2.chemistry.msu.edu/faculty/reusch/VirtTxtJml/intro1.htm>