

**Ankara University
Library and Documentation Center**

Open Courseware

Working Plan

Weeks	Topics
Week 1	An Introduction to Organic Chemistry
	<ul style="list-style-type: none"> ○ History ○ Organic Chemistry for Drug World ○
Week 2	The Bonding and Molecular Structure of Organic Chemicals
	<ul style="list-style-type: none"> ○ Atomic and Molecular Structure ○ Chemical Bonds ○
Week 3	Molecular Structure Properties
	<ul style="list-style-type: none"> ○ Formal Charges ○ Resonance Theory ○ Molecular Orbitals, Hybridization, Molecular Geometries
Week 4	Molecular Structure Properties
	<ul style="list-style-type: none"> ○ Carbon Compounds ○ Hydrocarbons, Polar and Nonpolar Molecules
Week 5	Molecular Structure Properties
	<ul style="list-style-type: none"> ○ Functional Groups ○ Alkyl Halides ○ Alcohols, Ethers ○ Amines ○ Aldehydes and Ketones ○ Carboxylic Acids, Esters, Amides, and Nitriles
Week 6	An Introduction to Organic Reactions with Basic Mechanism Explanations
	<ul style="list-style-type: none"> ○ Reactions and Their Mechanisms ○
Week 7	An Introduction to Organic Reactions with Basic Mechanism Explanations
	<ul style="list-style-type: none"> ○ Acid-Base Reactions ○ The Acidity of Carboxylic Acids
Week 8	An Introduction to Organic Reactions with Basic Mechanism Explanations
	<ul style="list-style-type: none"> ○ Organic Compounds as Bases ○ Acids and Bases in Aqueous Solutions
Week 9	Nomenclature of Organic Compounds
	<ul style="list-style-type: none"> ○ Alkanes, Cycloalkanes ○ Alkenes, Cycloalkenes ○ Alkynes
Week 10	Stereochemistry
	<ul style="list-style-type: none"> ○ Chirality, Stereochemistry, and Isomerism
Week 11	Stereochemistry
	<ul style="list-style-type: none"> ○ Enantiomers, Diastereomers, Meso Compounds
Week 12	Stereochemistry
	<ul style="list-style-type: none"> ○ Fischer projections, (R)/(S)- notation and Cahn-Ingold-Prelog priority rules

Weeks	Topics
Week 13	Stereochemistry <ul style="list-style-type: none"><li data-bbox="308 300 903 333">○ Relationships between conformations and chirality
Week 14	Stereochemistry <ul style="list-style-type: none"><li data-bbox="308 383 459 416">○ Exercises<li data-bbox="308 421 459 454">○ Exercises<li data-bbox="308 459 459 492">○ Exercises