

Organic Chemistry - Course Study Sheet

Course: Organic Chemistry Cluster: Natural and Physical Sciences

Studies carbon structure, stereochemistry, reaction mechanisms, spectroscopy, and synthesis.

Five-module course map

Module	Active evidence to produce
1. bonding and resonance	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
2. stereochemistry	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
3. reaction mechanisms	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
4. functional-group reactions	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
5. spectroscopy and synthesis	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.

Reliable learning method

identify electron-rich and electron-poor sites, draw curved-arrow steps, track atoms and stereochemistry, and check conditions

Representative application

Propose a short synthesis and justify each transformation using mechanism, selectivity, and spectral evidence.

Weekly study cycle

1. Preview the objective and write two questions. 2. Attend or engage and capture decisions rather than every sentence. 3. Reconstruct the main idea within 24 hours. 4. Complete independent practice. 5. Analyze the first unsupported move on each error. 6. Use feedback. 7. Schedule a delayed mixed recheck.

Self-check before moving on

Can you explain the idea without notes, complete a fresh task, detect a near-miss, verify the result, and state a limitation? Watch especially for: memorizing reaction products without electron flow, conditions, competing pathways, or stereochemical consequences.

What to save

a mechanism and synthesis portfolio with atom tracking, selectivity, and spectral verification

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