

# OC Ib Stoffaufteilung für die Kolloquien

Studierende BSc. Biochemie

**Lehrbuch: Clayden, Greeves, Warren**

## **Englische Ausgaben**

J. Clayden, N. Greeves, S. Warren, P. Wothers, *Organic Chemistry*, Oxford Press, 1st Edition 2001

J. Clayden, N. Greeves, S. Warren, *Organic Chemistry*, Oxford Press, 2nd Edition 2012

## **Deutsche Ausgabe**

J. Clayden, N. Greeves, S. Warren, *Organische Chemie*, Springer Spektrum, 2. Auflage 2013

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Prüfungstoff:      Angaben für Auflage von 2001

Thema	Kolloq	Kapitelnummer / Inhalt
Substitution am gesättigten Kohlenstoff/Radikalreaktionen	1.Kolloq	<b>16</b> Stereochemistry <b>17</b> Nucleophilic substitution at saturated carbon
Additionen/Eliminierung	1.Kolloq	<b>19</b> Elimination reactions <b>20</b> Electrophilic addition to alkenes
Aromaten	1.Kolloq	<b>22</b> Electrophilic aromatic substitution
Pericyclic Reaktionen	1.Kolloq	<b>35</b> Pericyclic reactions 1: cycloadditions <b>36</b> Pericyclic reactions 2: sigmatropic and electrocyclic reactions
Olefinierungen	1. Kolloq	<b>31</b> Controlling the geometry of double bonds
Organometallchemie	2.Kolloq	<b>09</b> Using organometallic reagents to make C-C bonds
Carbonylchemie	2.Kolloq	<b>06</b> Nucleophilic addition to the carbonyl group <b>10</b> Conjugate addition <b>12</b> Nucleophilic substitution at the carbonyl (C=O) group <b>14</b> Nucleophilic substitution at C=O with loss of carbonyl oxygen <b>21</b> Formation and reactions of enols and enolates <b>26</b> Alkylation of enolates <b>27</b> Reactions of enolates with aldehydes and ketones: the aldol reaction <b>28</b> Acylation at carbon
Heterocyclen	2.Kolloq	<b>43</b> Aromatic heterocycles 1: structures and reactions
Oxidationen und Reduktionen	2.Kolloq	<b>24</b> Chemoselectivity: selective reactions and protection

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**Prüfungstoff:**      **Angaben für Auflagen von 2012 und 2013 (Kapitelverteilung in englischer und deutscher Fassung ist identisch)**

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Olefinierungen	1.Kolloq	<b>27</b> Sulfur, silicon, and phosphorus in Organic Chemistry
Organometallchemie	2.Kolloq	<b>09</b> Using organometallic reagents to make C-C bonds
Carbonylchemie	2.Kolloq	<b>06</b> Nucleophilic addition to the carbonyl group <b>22</b> Conjugate addition and nucleophilic aromatic Substitution <b>10</b> Nucleophilic substitution at the carbonyl (C=O) group <b>11</b> Nucleophilic substitution at C=O with loss of carbonyl oxygen <b>20</b> Formation and reactions of enols and enolates <b>25</b> Alkylation of enolates <b>26</b> Reactions of enolates with aldehydes and ketones: the aldol and Claisen reactions
Heterocyclen	2.Kolloq	<b>29</b> Aromatic heterocycles 1: structures and reactions
Oxidationen und Reduktionen	2.Kolloq	<b>23</b> Chemoselectivity and protecting groups