## Ichm2281 <br> UCLouvain <br> Photochemistry

In view of the health context linked to the spread of the coronavirus, the methods of organisation and evaluation of the learning units could be adapted in different situations; these possible new methods have been - or will be - communicated by the teachers to the students.

| 3 credits | $22.5 \mathrm{~h}+7.5 \mathrm{~h}$ | Q2 |
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\begin{array}{|l|l|}\hline \text { Teacher(s) } & \text { Elias Benjamin ; } \\
\hline \text { Language : } & \text { English } \\
\hline \text { Place of the course } & \text { Louvain-la-Neuve } \\
\hline \text { Main themes } & \begin{array}{l}\text { The main topics to be covered are: the interaction between light and molecules and the laws of absorption - } \\
\text { competitive kinetics and lifetimes which are controlling the course of photochemical reactions - electron and energy } \\
\text { transfer reactions - basics of radiative emission processes, mainly fluorescence and its use as a tool to elucidate } \\
\text { reaction mechanisms. }\end{array} \\
\hline \text { Aims } & \begin{array}{l}\text { This course aims to afford the students with the basic principles of excited state generation under UV and } \\
\text { visible irradiation. Viewed in the perspective of a physical organic chemistry course, it should allow the } \\
\text { student to reasonably evaluate the reactivity of an excited state and to analyse its monomolecular fate } \\
\text { (photophysics) as well as its bimolecular interactions. The student will be able, using the principles given } \\
\text { in the course, to optimize a reaction in the laboratory. }\end{array}
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\hline The contribution of this Teaching Unit to the development and command of the skills and learning outcomes of the programme(s)\end{array}\right\}\)| Than be accessed at the end of this sheet, in the section entitled "Programmes/courses offering this Teaching Unit". |
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| Programmes containing this learning unit (UE) |  |  |  |  |
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| Program title | Acronym | Credits | Prerequisite | Aims |
| Master [120] in Chemistry | CHIM2M | 3 |  | a |

