



AN OVERVIEW OF

Toxicology for Chemists:

An open access curriculum to teach introductory-level chemistry students the basics of toxicology

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green chemistry education





Overview of The Toxicology for Chemists Curriculum

The Toxicology for Chemists curriculum has been developed by Beyond Benign to facilitate the widespread adoption of green chemistry into chemistry curricula. The curriculum was designed and created by an advisory board and team of curriculum developers, comprising both chemists and toxicologists from academia, industry, and government. We collectively developed Toxicology for Chemists to help educators teach introductory-level chemistry students the basic principles of toxicology.

What makes a molecule hazardous to human health and the environment? How can we design chemical products with no detriment to ourselves and our surroundings? We hope this curriculum will help answer these questions and show students that designing molecules for specific applications is possible through a lens of green chemistry and sustainability.

Toxicology for Chemists currently has 11 modules available for download. Each module contains approximately 3 hours of content for educators to use. The modules are designed to be delivered concurrently with introductory-level chemistry courses, but they can be adapted to suit advanced chemistry courses. The modules contain lecture slides, lesson plans, homework assignments, supplementary readings, and more. Small components of the modules can easily be incorporated into existing course materials, or individual modules can be used as standalone units within a course. The full Toxicology for Chemists Curriculum can also be used to construct a full course. We hope that educators will benefit from this flexibility!

The Toxicology for Chemists Curriculum additionally helps to fulfill a major Student Learning Objective in our [Green Chemistry Commitment Signer Program](#). It is our hope that educators can use these educational materials to feel fully supported in implementing toxicology knowledge into courses at their institution.

Download Instructions

To download the Toxicology for Chemists modules please visit:

<https://www.beyondbenign.org/curr-toxicology-course-modules/>

Feedback Wanted!

We would love to hear from you and how you are using Toxicology for Chemists. We would appreciate any feedback. Any future revisions will include iterative improvements identified and made by the community, so please contact us with any new innovations or modifications you have made to the materials: info@beyondbenign.org.