

## Bio-Environmental Engineering Stream

Students who specialize in the Bio-Environmental Engineering stream will learn to be responsible stewards of the environment and natural resources. This stream includes the study of soil and water quality management and conservation, organic waste treatment, urban and rural ecology, sustainability engineering, biodiversity preservation, climate change adaptation, and many other related topics.

Students wishing to specialize in this stream should take the following five complementary set D courses.

- BREE 214 Geomatics
- BREE 217 Hydrology and Water Resources
- BREE 315 Design of Machines<sup>A</sup>
- BREE 322 Organic Waste Management
- BREE 416 Engineering for Land Development

The six remaining complementary set D courses should be chosen from the following list.

- BREE 501 Simulation and Modelling
- BREE 504 Instrumentation and Control
- BREE 509 Hydrologic Systems and Modelling
- BREE 510 Watershed Systems Management
- BREE 518 Ecological Engineering
- BREE 529 GIS for Natural Resource Management
- BREE 533 Water Quality Management

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<sup>A</sup> From 2019-2020 onwards, BREE 315 has been replaced by the required course BREE 415.