Honors students admitted to Engineering will be eligible to join the Engin Honors RAP. Students in this program will be living in Sycamore Hall, one of the first-year buildings in the Commonwealth Honors College Residential Community. All Engin Honors RAP students will be housed with another member of the Engin Honors RAP and enroll in a section of ONE of the following math or sciences courses. Students will choose the class with their academic advisor during the Summer NSO.

*No application is required for this Honors RAP; sign up is on a first-come basis, for detailed information and specific steps, see [How to Join a RAP](https://www.honors.umass.edu).*

### Related Courses:

**Math 131H: Calculus 1**

Calculus 1 - Continuity, limits, and the derivative for algebraic, trigonometric, logarithmic, exponential, and inverse functions. Applications to physics, chemistry, and engineering. Students expected to have and use a Texas Instruments 86 graphics, programmable calculator. Prerequisites: high school algebra, plane geometry, trigonometry, and analytic geometry. There will be some emphasis on the underlying theory, that more applications will be included, and that some attention will be paid to history. Active student participation will be encouraged.

**Math 132H: Calculus 2**

Calculus 2 - The definite integral, techniques of integration, and applications to physics, chemistry, and engineering. Sequences, series, and power series. Taylor and Maclaurin series. Students expected to have and use a Texas Instruments 86 graphics, programmable calculator. Prerequisite: MATH 131 or equivalent. There will be some emphasis on the underlying theory, that more applications will be included, and that some attention will be paid to history. Active student participation will be encouraged. Recommended for Freshmen, Sophomores; Majors, Non-majors.

**Math 233H: Multivariate Calculus**

Multivariate Calculus - Techniques of calculus in two and three dimensions. Vectors, partial derivatives, multiple integrals, line integrals. Prerequisite: MATH 132, or 136. Students expected to have and use a Texas Instruments 86 graphics, programmable calculator.
calculator. There will be some emphasis on the underlying theory, that more applications will be included, and that some attention will be paid to history. Active student participation will be encouraged.

Chem 121H: Honors General Chemistry

Honors General Chemistry - Basic Principles of chemistry. Microscopic nature of atoms and molecules; macroscopic properties of chemical systems. Topics include stoichiometry, atomic and nuclear structure, chemical bonding, molecular structure, gases, and intermolecular forces. Includes laboratory. More extensive lecture treatment of advanced topics and laboratory work than CHEM 111.

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