Applied Mathematics

Oregon Institute of Technology
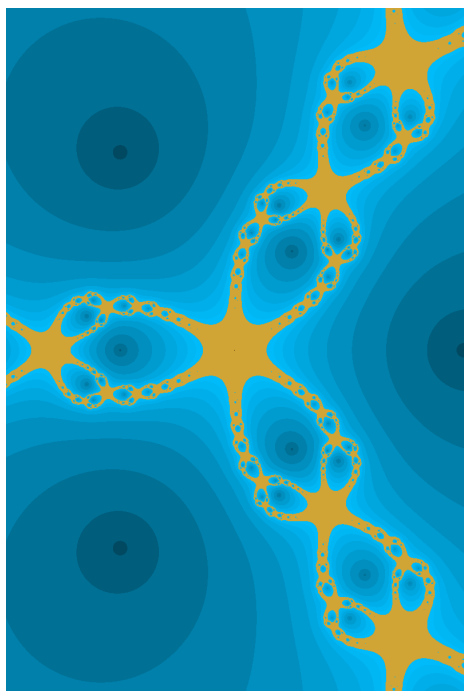
Degree Offered: Bachelor of Science in Applied Mathematics

Minor Offered: Minor in Applied Mathematics

Location: OIT/Klamath Falls

About our program

Course work for the bachelor's degree is intended to provide a solid foundation of mathematical theory and a broad selection of applied work both in and outside mathematics. The major includes course work in calculus, differential equations, and numerical methods. Students also take a sequence of introductory physics courses and a further sequence in a technical field outside mathematics.

Upon completing the requirements for the Applied Mathematics degree students will be prepared for a variety of jobs in industry including numerical modelling, signal processing, data analysis, and many others. Students with this degree will also be well-qualified to continue their education with a Masters or PhD in Mathematics or Applied Mathematics.

Students entering the Applied Mathematics program from high school should have a minimum of two years of algebra, one year of pre-calculus, one year of geometry, and two years of physical science (physics or chemistry preferred). Additional courses in mathematics, science, English and computer programming will be very helpful.

The minor in Applied Mathematics provides formal recognition of mathematical proficiency. It is composed of a core of required courses and upper-division electives related to the students major.

Areas of Study

In addition to a solid base of lower division courses, the Mathematics department offers upper division courses in the following general areas:

- Discrete Mathematics
- Linear Algebra
- Vector Analysis
- Introductory Real Analysis
- Statistical Methods
- Differential Equations
- Applied Partial Differential Equations
- Numerical Methods

Faculty

Department Chair: Tim Thompson

Professors: B. Cornelius, P. Francis

Associate Professors: J. Fischer, G. Waterman

Assistant Professors: J. Ballard, T. Fogarty, E. Kapiloff, C. Negoita, R. Paul

For more information please consult our website:
www.oit.edu/math