

This course is an introduction to calculus that is suitable for students wanting to continue towards a medial or major concentration in mathematics or statistics or physics. Although the course begins with the idea of a limit students are expected to have some familiarity with limits and differentiation.

**Textbook:** *Calculus, Early Transcendentals*, 4th Edition  
by James Stewart (Brooks/Cole)

**Prerequisite:** OAC Calculus.

**Instructor:** O. A. Nielsen

<b>Evaluation:</b>	Homework	10%
	4 Term tests (5% each)	20%
	December exam	10%
	Final exam	60%

**Outline:**

Topic	Sections
Limits and continuity	2.2-2.6
Differentiation	2.8, 2.9, 3.1-3.8, 3.10
Applications of differentiation	4.1-4.5, 4.7
Integration	4.10, 5.1-5.6
Applications of integration	6.1-6.3, 8.1
Techniques of integration	7.1-7.4, 7.8
Polar coordinates	10.4
Partial differentiation	14.1-14.7
Sequences and series	11.1-11.4, 11.6-11.9