



**CROSS-LISTED COURSE OUTLINE**

September 1999 COURSE IMPLEMENTATION D, September 1999  
 COURSE REVISED IMPLEMENTATION DATE: September 2012  
 COURSE TO BE REVIEWED: September 2011  
*(six years after UEC approval)* *(month, year)*

**CROSS-LISTED COURSE OUTLINE INFORMATION**

This is a cross-listed course. Only one official course outline exists for this course, listed under the original course name and number. Please refer to the official course outline for full course information.  
 Shaded headings are subject to change at the discretion of the department – see course syllabus available from instructor

ENGR 255	SCIENCE/MATH & STATS	3
COURSE NAME/NUMBER	FACULTY/DEPARTMENT	UFV CREDITS
Ordinary Differential Equations		
COURSE DESCRIPTIVE TITLE		

**OFFICIAL COURSE OUTLINE:**

This is a cross-listed course. Please refer to **MATH 255** for the official course outline.

**CALENDAR DESCRIPTION:**

Most mathematical models of a physical process are in the form of differential equations. This course provides various techniques and ideas in solving ordinary differential equations with an emphasis on applications. Graphing calculators and Maple are used in this course. Topics include first- and second-order linear differential equations, non-linear equations, series solutions, Laplace transform methods, and linear systems.

Note: This course is offered as MATH 255 and ENGR 255. Students may take only one of these for credit.

PREREQUISITES: MATH 112 or at least a B in Math 118  
 COREQUISITES:  
 PRE or COREQUISITES: MATH 211 and one of MATH 152, MATH 221, or PHYS 221

**SYNONYMOUS COURSE(S):**

- (a) Replaces: \_\_\_\_\_
- (b) Cross-listed with: MATH 255
- (c) Cannot take: MATH 255 for further credit.

**SERVICE COURSE TO (department/program):**

WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only)  Yes  No  
 WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department)  Yes  No  
 TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE:  Yes  No

Course designer(s): <u>David Chu/Erik Talvila</u>	Date approved: <u>December 15, 2011</u>
Department Head: <u>Greg Schlitt</u>	Date of meeting: <u>February 3, 2012</u>
Supporting area consultation (Pre-UEC)	Date approved: <u>January 27, 2012</u>
Curriculum Committee chair: <u>Norm Taylor</u>	Date approved: <u>February 10, 2012</u>
Dean/Associate VP: <u>Ora Steyn</u>	Date of meeting: <u>March 2, 2012</u>
Undergraduate Education Committee (UEC) approval	