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.

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<th>ENGR 255</th>
<th>SCIENCE/MATH &amp; STATS</th>
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<td>COURSE NAME/NUMBER</td>
<td>FACULTY/DEPARTMENT</td>
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<td>Ordinary Differential Equations</td>
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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.

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): David Chu/Erik Talvila
Department Head: Greg Schlitt
Supporting area consultation (Pre-UEC)
Curriculum Committee chair: Norm Taylor
Dean/Associate VP: Ora Steyn
Undergraduate Education Committee (UEC) approval

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