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 UCC Document # 122

 College Document # COAS
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 Review Type: ___Edit ___ Exp ___Full

CATALOG YEAR 2012-2013

COLLEGE/SCHOOL/SECTION:		
Course: Add: Delete (check all that apply) Change: Number Changes are in red.	:: Title SCH Descrip	tionx_ Prerequisite
Justification for Description Chan The current description is too terse for		
MATH 4350 Partial Differential Equations. Three	semester hours. (SP)	
Theory of partial differential equations sciences and engineering. Detailed anal equation. Numerical methods to solvin Prerequisite: Math 3330.	lysis of the wave equation, the h	neat equation, and the potential
MATH 4350 in current catalog: Fourier series, the Heat, Wave and Potential equations. Problems in several dimensions. Prerequisite: MATH 3330.		
Approvals:	Signature	Date
Chair Department Curriculum Committee	Qingwen Ni	Digitally signed by Qingwen Ni DN: cn=Qingwen Ni, o=TAMIU, ou=TAMIU, email=qni@tamiu.edu, c=US Date: 2012;11.07 14:48:02 -06:00*
Chair Department	Rafic Bachnak Digitally signed by R Digitally signed by R	s, o=TAMU, niu.edu.e=US
Chair College Curriculum Committee	Kevin Lindberg	Digitally signed by Kevin Lindberg DN: cn=Kevin Lindberg o=COAS, ou=COAS Dean's Office, emal=klindberg @tamu.edu.c=US Date: 2012.12.19 09:22:58 -06:00'
Dean	Kevin Lindberg	Digitally signed by Kevin Lindberg DN: cn=Kevin Lindberg, o=COA5, ou=COA5 Dean's Office, email=klindberg@etami.edu, c=U5 Date: 2013.01.28 09:53:53 -06'00'

Trevino, Mary T.

From: Goonatilake, Hoonandara R

Sent: Friday, February 08, 2013 11:13 AM

To: Trevino, Mary T.
Cc: Bachnak, Rafic A

Subject: SLO's for Math 4350-102, Partial Differential Equations

Dear Mary,

SLO's for Math 4350-102, Partial Differential Equations are listed below as requested by UCC this morning.

STUDENT LEARNING OUTCOMES:

Upon successful completion of this course, the student will be able to:

- Derive the heat, wave, and potential equations with various boundary conditions;
- Classify partial differential equations;
- Determine the existence, uniqueness, and well-posedness of a solution and if an analytic solution can be obtained, select the appropriate technique for constructing the solution;
- Utilize technology tools to find geometric, graphical and numeric techniques for the analysis of solutions;
- Determine the essentials of Fourier series to solve partial differential equations;
- Use the method of separation of variables for solving heat, wave, and potential equations with various boundary conditions;

Thanks, Rohitha Goonatilake