



DO NOT TYPE IN THIS BOX
Bulletin # : _____
Academic Year : _____

**FLORIDA INTERNATIONAL UNIVERSITY
UNIVERSITY CURRICULUM COMMITTEE**
Proposal for a New Course

1. **School/College** Engineering and Computing
Div./Dept. in Which Taught School of Computing and Information Sciences

2.

<u>CEN</u>	<u>4</u>			<u>3</u>	CIP Code (Leave this blank): _____
<u>Alpha</u>	<u>1st</u>	<u>Last 3</u>	<u>"C"-lec-lab</u>	<u>Cr. Hrs.</u>	
<u>Prefix</u>	<u>Digit</u>	<u>Digits</u>	<u>"L"-Lab</u>		

3. **Grading Method (select one):** Graded Pass/Fail

4a. **Course Title** Fundamentals of Modeling & Simulations

b. **Abbreviated course Title (for computer class schedules, transcripts)** **Modeling & Simulations**
LIMITED TO 25 Characters (including spaces)

5. **Statewide Course Numbering Subject Matter Area** Computer Software Engineering

6. **Catalog Description/Major Topics (not to exceed 200 characters including spaces)**
College of Medicine and College of Law: Attach description not exceeding 1,000 characters including spaces.

Introduction to discrete-event systems, a survey of modeling tools, mathematical & statistical modeling, role of random numbers, verification & validation, and applications.

7. **Attach detailed syllabus course outline and course justification on separate page(s).**

8. **Prerequisite(s):** (STA-2023 or STA-3033) and COP-3530

9. **Corequisite(s):** _____

10. **Objective(s) of Course:**

Student will understand:
 What are the advantages and disadvantages of different types of simulations.
 The role of statistics and queues in modeling.
 The role of verification and validation in modeling

11. **Does this course duplicate/overlap other courses at FIU?** No Yes
 If yes, please explain: _____

12. **What other closely related department(s) have been consulted about this course?**

13. **Is this course used for the assessment of a program or a certificate (if yes, then send a notification to assessment@fiu.edu)?** No Yes

PROPOSAL REQUESTED BY:

Faculty Contact William B Feild, Jr 3 / 16 / 2020
 (Type name) (Signature)

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 (Email address) (Phone number)

Chairperson (Dept./Div.) S.S. Iyengar 3 / 16 / 2020
 (Type name) (Signature)

Chairperson (Curr. Comm.) Wei-Chiang Lin _____ / _____ / 2020
 (Type name) (Signature)

College/School Dean John Volakis _____ / _____ / 2020
 (Type name) (Signature)

Submit one original form. Attach one copy of the course justification and course syllabus, course description, objectives, major topics and textbooks.