

Quan Nguyen

Class of 2015

Interdisciplinary major proposal

Computational Economics

My proposed major is concerned with the integration of advanced mathematical methods and modeling with economics concepts and problems. It is believed that Mathematics allows economists to form meaningful, testable propositions about wide-ranging and complex subjects which could less easily be expressed informally. Furthermore, the language of mathematics allows economists to make specific, positive claims about controversial or contentious subjects that would be impossible without Mathematics.

Moreover, after college, I want to go to graduate school to study Mathematical Economics which requires students to have a solid background in both Mathematics and Economics. Therefore, with this interdisciplinary major, I will be adequately prepared to apply for these programs. I have divided the course requirements for this major into three parts: foundation courses, intermediate courses and advanced courses as follows:

Foundation courses:

- ECON 200: Principles of Microeconomics
- ECON 210: Principles of Macroeconomics
- BUSI 200: Principles of Accounting I
- CSCI 150: Foundations of Computer Science
- PHYS 210 or PHYS 230: General Physics I

Intermediate courses:


- MATH 230: Multivariable Calculus
- MATH 260: Differential Equations
- MATH 310: Probability and Statistics or BUSI 250: Principles of Statistics

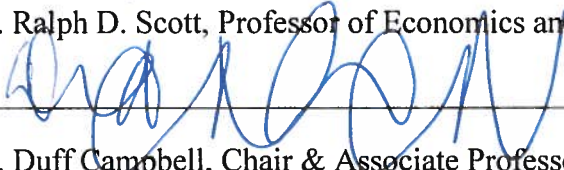
Advanced courses:

- ECON 300: Intermediate Microeconomics
- ECON 310: Intermediate Macroeconomics
- ECON 400: Econometrics and Forecasting
- BUSI 330: Cost Accounting
- MATH 497: Game Theory
- ECON 497: Economic Research (Senior Capstone)

My Senior Capstone would be ECON 497: Economics Research which I believe logically fits the proposed major.

Proposer's Signature:  5/1/2013

Interdisciplinary major Committee:  5/1/2013

Dr. Ralph D. Scott, Professor of Economics and Business
 5/1/2013

Dr. Duff Campbell, Chair & Associate Professor of Mathematics