

New Program Proposal

Emphasis in Financial Mathematics

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| Core Requirements | | |
| CMP SCI 1250 | Introduction To Computing | 3 |
| MATH 1320 | Introduction to Probability and Statistics | 3 |
| MATH 1800 | Analytic Geometry And Calculus I | 5 |
| MATH 1900 | Analytic Geometry And Calculus II | 5 |
| MATH 2000 | Analytic Geometry And Calculus III | 5 |
| MATH 2020 | Introduction To Differential Equations | 3 |
| MATH 2450 | Elementary Linear Algebra | 3 |
| MATH 3250 | Foundations of Mathematics | 3 |
| MATH 4200 | Mathematical Statistics I | 3 |
| MATH 4210 | Mathematical Statistics II | 3 |
| Specialized Requirements | | |
| MATH 3010 | Financial Mathematics I | 3 |
| MATH 3020 | Financial Mathematics II | 3 |
| FINANCE 3500 | Financial Management | 3 |
| MATH 4005 | Exploratory Data Analysis with R | |
| In addition, two further courses in mathematics, statistics or computer science numbered above 4000. | | 6 |
| Related Requirements | | |
| ECON 4100 | Introduction To Econometrics | 4 |
| ECON 4110 | Applied Econometrics | 4 |
| or ECON 4130 | Business And Economic Forecasting | |

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| Complete two of the following courses: | | 6 |
| FIANCE 3503 | Computer Applications in Finance | |
| FINANCE 3520 | Investments | |
| FINANCE 3521 | Financial Engineering: Applying Derivatives | |
| FINANCE 3523 | Fixed Income Analysis | |
| FINANCE 3540 | Introduction to Financial Institutions and Financial Markets | |
| Total Hours | | 65 |

Sign-offs from other departments affected by this proposal

| Department | Contact Person | Phone # | Objections |
|------------|--|---------|------------|
| S003400 | | | |
| S002900 | | | |
| Rationale | Having an emphasis area will suggest to many students a very well defined path of study which prepares them for a definite professional life. Financial mathematics helps to prepare students for rewarding careers in the corporate world as well as providing a platform on which to base further studies. | | |