Name _____ ID#_____

Email _____ Phone: _____

FINE Degree Requirement Worksheet

This worksheet is to be used for course planning. It is not a formal degree check. A degree check will be done when you turn in your application for graduation.

❑ **Entrance Requirements**

EE 441	Applied Linear Algebra for Engineering
EE 464	Probability Theory for Engineers
ISE 220	Probability Concepts in Engineering

❑ **Required Coursework**

	Course Title	**Units**	**Semester**
ISE 563	Financial Engineering	**3**	
GBSA 548	Corporate Finance	**3**	
EE 556	Stochastic Systsems and Finance	**3**	

❑ **Elective Courses**

6 Units of Advisor-approved electives in finance, business, economics area
9 Units of Advisor-approved electives in optimization, simulations & sthochastic systems area
3 Units of Advisor-approved electives in systems and control area

Finance, Business, Economics Area: Take ***two*** courses from the following:

	Course Title	**Units**	**Semester**
FBE 529	Financial Analysis and Valuation	**3**	
FBE 555	Investment Analysis and Portfolio Management	**3**	
FBE 535	Applied Finance in Fixed Income Securities	**3**	
FBE 543	Forecasting and Risk Analysis	**3**	
FBE 554	Trading and Exchanges	**3**	
FBE 559	Management of Financial Risks	**3**	
FBE 589	Mortgages and Mortgage-Backed Securities	**3**	
ECON 500	Microeconomic Analysis and Policy	**3**	
ECON 501	Microeconomic Analysis and Policy	**3**	
ECON 613	Econometric and Financial Time Series I	**3**	

Optimization, Simulations, Stochastic Systems Area: Take ***three*** courses from the following:

	Course Title	**Units**	**Semester**
ISE 539	Stochastic Elements of Stimulation	**3**	
EE 517	Statistics for Engineers	**3**	
EE 553*	Computational Solution of Optimization Problems	**3**	
ISE 520*	Optimization: Theory and Algorithms	**3**	
ISE 536	Linear Programming and Extensions	**3**	
EE 562a	Random Processes in Engineering	**3**	
ISE 538	Stochastic Processes	**3**	
CE 645	Uncertainty Modeling and Stochastic Optimization	**3**	
Students cannot receive credit for both ISE 520 and EE 553			

Systems and Controls Area: Take ***one*** course from the following:

	Course Title	**Units**	**Semester**
EE 585*	Linear Systems Theory	**3**	
AME 541	Linear Control Systems II	**3**	
EE 588	Linear Quadratic Control	**3**	
EE 587	Nonlinear and Adaptive Control	**3**	
EE 630	Neural and Fuzzy Systems	**3**	
*** Students cannot receive credit for both EE 585 and AME 541***			

****** Continued on Back ******

All other electives must be approved by Prof. Petros Ioannou or Prof. Rahul Jain

Course	**Approved By**

Additional info (to be completed by advisor):

- ❑ No more than three courses outside the Viterbi School of Engieering
- ❑ At least 18 units at the 500 level or above
- ❑ Continuous Enrollment
- ❑ Prerequisites taken in correct order
- ❑ No more than 6 units of Directed Research
- ❑ Overall graduate GPA at least 3.0
- ❑ MS coursework GPA at least 3.0
- ❑ Expected graduation date _____

Notes: _____

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Updated 08/18/09