**Registration Form for the Certificate of Achievement in Operations Research**

Name: _____ Class: _____

Major: _____ Student ID # _____

CPC Box or Local Address: _____

E-Mail Address:_____

Home/Permanent Address: _____

Phone: (_____)_____

| **6 Core Courses:** | Semester Completed | Grade |
|---|---|---|
| 1. MATH 165 Linear Alg w/ Diff Equations | _____ | _____ |
| 2. MATH 201 Introduction to Probability | _____ | _____ |
| 3. MATH 208 Operations Research I | _____ | _____ |
| 4. MATH 209 Operations Research II | _____ | _____ |
| 5. 1 Course from the following list: | | |

ECO 230 Economic Stats, STAT 212 Applied Stats I, STAT 213 Elem of Prob/Math/Stat, STAT 262 Computational Stats

Indicate Course _____ _____ _____

6. 1 Course from the following list:

CSC 161 Intro to Programming, CSC 171 Intro to Comp Sci, STAT 276 Stat Computing in R, STAT 277 Stat Software/Analysis

Indicate Course _____ _____ _____

**2 Additional Courses from the lists below, in accordance with the following restrictions:**

- **No more than one course may come from a single group.**
- **For students completing the Actuarial Certificate, your 2 course choices below cannot intersect with your Actuarial Certificate course plan. For example, STAT 203 is a core course for the Actuarial Certificate, and thus cannot be chosen below if you are also planning to complete the Actuarial Certificate.**
- **Note: several courses have extensive prerequisites which must be adhered to.**

Indicate Course 1 _____ _____ _____

Indicate Course 2 _____ _____ _____

Algorithms Group:

- CSC 282: Design and Analysis of Efficient Algorithms
- CSC 284: Advanced Algorithms
- CSC 287: Sampling Algorithms

Business, Economics, Management Group:

- BUS 221: Operations and Strategy
- ECON 220: Fair Allocation
- ECON 288: Game Theory

Mathematical Analysis Group:

- MATH 202: Introduction to Stochastic Processes
- MATH 235: Linear Algebra
- MATH 248: Graph Theory
- MATH 265: Functions of a Real Variable

Statistics Group:

- STAT 203: Introduction to Mathematical Statistics
- STAT 216: Applied Statistical Methods I
- STAT 223: Introduction to Bayesian Inference
- STAT 226W: Linear Models

PLEASE NOTE:

• Students must complete certificate courses with an overall GPA of 2.5 or higher.

• None of the certificate courses may be taken satisfactory/fail.

**If your Certificate faculty advisor has approved any substitutions, please note the course(s) along with your advisor's Signature: _____

Certificate faculty advisor's signature: _____

Date: _____

This completed form may be submitted by emailing:

mark.herman@rochester.edu, jliang31@cs.rochester.edu, or joseph.ciminelli@rochester.edu