

MATHEMATICAL & COMPUTATIONAL SCIENCE MINOR REQUIREMENTS PROGRAM SHEET (2019 - 20)

Name _____ Student ID# _____ Date _____

The MINOR PROGRAM in MCS is intended to provide an experience of the four core areas: Mathematics, Computer Science, Management Science & Engineering and Statistics. Total 32 units minimum.

Five (5) basic courses are required; in addition, three (3) additional courses must be selected from two (2) different departments from the list given below.

Mathematics

- Math 51 - Linear Equations and Differential Calculus (5 units) _____
- or*
- Math 104 - Applied Matrix Theory (3 units) _____

Computer Science

- CS 106A - Programming Methodology (5 units) _____
- and either*
- CS 106B or 106X - Programming Abstractions (5 units) _____

Management Science & Engineering

- MS&E 211 – Linear and Non-Linear Optimizations (4 units) _____
- or*
- MS&E 221 – Stochastic Modeling (3 units) _____

Statistics

- Stats 116 – Theory of Probability (4 units) _____
- and either*
- Stats 191 – Intro to Applied Statistics (3 units) _____
- or*
- Stats 200 – Intro to Statistical Inference (3 units) _____

Circle your chosen electives

CME 108	CS 225A	Math 104	MS&E 211
CME206	CS 228	Math 106	MS&E 212
CME 302	CS 229	Math 108	MS&E 221
CME 311	CS 243	Math 109	MS&E 251
CS 103	CS 248	Math 110	Phil 151
CS 107	Econ 102C	Math 113	Stats 50
CS 108	Econ 140	Math 174	Stats 191
CS 110	Econ 160	Math 115	Stats 200
CS 140	Econ 179	Math 116	Stats 202
CS 143	Econ 181	Math 131P	Stats 203
CS 154	EE 261	Math 136	Stats 208
CS 157	EE 263	Math 171	Stats 215
CS 161	EE 278B	Math 172	Stats 217
CS164	EE 282		Stats 219
CS 194	EE 364B		
CS 221			Other _____
CS 223A			_____