

**SJSU - ISE Graduate Program: Course Requirements:
A 10-course (5+3+2) Evening Program with Three Specialty Areas**

TWO CORE PREREQUISITES, IF NOT COMPLETED ALREADY: (Not for Graduate Credit)

ISE 140 – Operations Planning and Control, or Equivalent
ISE 167 – System Simulation, or Equivalent

FIVE CORE COURSES

ISE 200 – Engineering Economic Analysis
ISE 210 – Human Factors/Ergonomics (including Design of Work Methods)
ISE 230 - Advanced Operations Research
ISE 235 - Quality Assurance and Reliability
ISE 298 - M.S. Project or ISE 299 – MS Thesis

THREE SELECTED COURSES IN SPECIALTY AREA

Specialty Area 1: Systems and Information Modeling

ISE 220 - Information Engineering
ISE 222 – Advanced Systems Engineering
ISE 241 - Advanced Operations Planning and Control
ISE 265 - Advanced System Simulation

Specialty Area 2: Production and Quality Assurance

ISE 202 – Design and Analysis of Engineering Experiments
ISE 241 - Advanced Operations Planning and Control
ISE 250 - Organization and Process Improvement
ISE 265 - Advanced System Simulation

Specialty Area 3: Human Factors

ISE 202 - Design and Analysis of Engineering Experiments
ISE 212 – Human Factors Experiments
ISE 217 – Human Computer Interaction
ISE 219 – Research in Human Computer Interaction

TWO ELECTIVES: Two graduate-level ISE courses in other specialty areas/See Graduate Advisor.

SJSU REQUIREMENT OF COMPETENCY IN WRITTEN ENGLISH

Note: The Special Topic for ISE 297 in Summer 2002 will be Supply Chain Management.