

COURSES FOR MASTERS DEGREE IN COMPUTER SCIENCE - SOFTWARE ENGINEERING SPECIALIZATION PERTAINS TO NEW STUDENTS STARTING AFTER JULY 2011

Students with no prior programming experience

Students with some prior programming experience

Students with proficiencies in Java, OS, & Networks

COP5007
SE Foundations:
JAVA Programming
(Elective)

CEN5003
SE Foundations:
Operating Systems &
Networks (Elective)

CEN6016
SE Process
(Required Core)

COP5725
Database Systems
(Required Core)
May not have taken
COP4710 as an
undergraduate student

CEN6095
SE Practice & Tools
(Required Core)

CEN6064
Software Design
(Required Core)

CEN6075
Software Specification &
Implementation (Elective)

CEN6070
Software Testing &
Verification (Elective)

CEN6990
Process Improvement:
CMMI (Elective)

CEN6991 Software
Assurance and Security
(Elective)

CEN6992 Software
Engineering Project
Management (Elective)

MAN6156 Management and
Organizational Behavior
(Elective)

5000/6000 Elective in
domain of interest outside
of CS department if
Pre-Approved by Advisor

COP6727 Advanced Database Systems (Elective)

COP5775 Database Administration
(Elective) May not have taken COP4723 as an undergraduate student

COP6990 Data Warehousing (Elective)

CAP5771 Data Mining
(Elective) May not have taken CAP4770 as an undergraduate student

CAP6991 Web Data Mining (Elective)

(Required)
Two consecutive semesters of
COT6931 CS Project
Or
CIS6971 Thesis

*Students should complete 2/3rd
of coursework prior to starting
CS Project or Thesis*

**SE DEGREE COURSEWORK CONSIST OF A TOTAL OF 10 COURSES:
CEN6016, CEN6064, CEN6095, &
COP5725,
AND 4 ELECTIVES - MAY COUNT SE
FOUNDATIONS COURSES,
AND 2 SEMESTERS OF
COT6931 OR CIS6971**