

**ROOSEVELT UNIVERSITY
Master of Science in Telecommunications**

Admit Term

Student _____ Advisor _____ Phone _____

E-mail _____ SID _____ Date _____

I. Prerequisites for the MS in Telecommunications:

Accredited Bachelors Degree: _____ TOEFL/ELP _____

_____ CS-I (CST 150)

_____ CS-II (CST 250)

_____ CS-III (CST 280)

_____ Intro. to Data Comm. (CST 246)

_____ Calculus I (MATH 231)

_____ Discrete Str.(MATH 245)

Calculus II (CST 232) and Probab. and Stats (CST 217) are strongly recommended (but not required).

II. Graduate Level Requirements for the MS in Computer Science (36 semester hours, with at least 18 s.h. at the advanced core/electives/capstone courses list):

II.1. Ten courses chosen in consultation with your advisor where:

- at least 4 courses must be chosen from advanced core courses list;
- courses from beginning core list must be taken as a part of the program if they were not part of your undergraduate degree.

A1. Beginning Core Courses

CST 448 Adv. Data Communications, CST 454 Local Area Networks, CST 452 Network Design

A2. Advanced Core Courses

CST 432 Adv. Network Technology, CST 442 Satellite Communications, CST 445 Network Simulation, CST 446 Coding Theory, CST 456 Wireless Communication Systems, CST 466 Cryptography, CST 468 Internet Security

B1. Beginning Electives

CST 417 Oper. Sys, CST 431 Telecom. Syst. Analysis, CST 433 Database Systems, CST 440 Computer Architecture, CST 444 OOP and the .NET Framework, CST 465 Network App. Prog., CST 484 Special Topics in Telecom.

B2. Advanced Electives

CST 405 Adv. Data Struc, CST 410 Formal Lang. & Automata, CST 415 Parallel & High Performance Comp., CST 471 Distributed DBs, CST 476 Distributed App., CST 477 Advanced Oper Sys, CST 484 Special Topics, CST 486 Information Retrieval

II.2. Capstone (6 s.h.) or Comprehensive exam.

For fulfilling the thesis option students should take CST 485 Thesis/Project Research (in their second to last semester) and CST 490 Thesis or 499 Project (in their last semester). For fulfilling comprehensive exam option students may chose to take two more courses from the advanced core/advanced electives lists:
