



SACRAMENTO  
STATE

# Program Proposal Form B



<b>Academic Group (College):</b> Engineering and Computer Science	<b>Date of Submission to College Dean:</b> May 14, 2007
<b>Academic Organization (Department):</b> Computer Science	<b>Requested Effective:</b> Fall __, Spring <u>X</u> , 200 <u>8</u> __.
<b>Department Chair:</b> Du Zhang	<b>Contact if not Department Chair:</b>

**Title of the Program:** Certificate in Computer Networks and Communications

**Type of Program Proposal:**

- Modification in Existing Program:**  
     \_\_\_ Substantive Change  
      Non-Substantive Change  
     \_\_\_ Deletion of Existing Program

\_\_\_ **New Programs**

- \_\_\_ **Initiation (Projection) of New Program on to Master Plan**  
 \_\_\_ **New Degree Programs**  
     \_\_\_ Regular Process  
     \_\_\_ Fast Track Process  
     \_\_\_ Pilot Process  
 \_\_\_ **New Minor, Concentration, Option, Specialization, Emphasis**  
 \_\_\_ **New Certificate Program**

**PLEASE NOTE:** Form B is to be used only as a Cover Form. Additional information is requested for each of the above as noted in the corresponding procedure in the Policies and Procedures for Initiation, Modification, Review and Approval of Courses and Academic Programs found at <http://www.csus.edu/acaf/univmanual/index.htm>

**Briefly describe the program proposal (new or change) and provide a justification.**

1. Make CSC 255 (Computer Networks) required instead of optional;
2. Add CSC 254 (Network Security) to the list of options for six additional units.

**Justification:** Security has become an important part of any useful computer network because networks have to be protected in order to be useful. In particular there is a need to defend computer networks against attacks such as scams, fraud, espionage, etc. In general, computer network administrators and computer system administrators oversee network security as part of their jobs. Thus including network security in the certificate program enhances the certificate in computer networks and communications.

**Approvals:**

**Department Chair:** Dr. J. Zhang **Date:** 5/14/2007

**College Dean:** John Alcheringa **Date:** 9/24/07

**University Committee:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Associate Vice President and Dean for Academic Affairs:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**ANALYSIS OF PROGRAM CHANGE PROPOSAL**  
**Certificate in Computer Networks and Communications**  
**May 14, 2007**

1. **Form B:** See attached.
2. **Programmatic or Fiscal Impact on Other Academic Units' Programs.** N/A
3. **Fiscal Analysis of Proposed Changes.**
  - a. **How will the proposed changes be accommodated within department/college existing fiscal resources?** This change will not require additional resources.
  - b. **If the proposed changes will require additional resources, describe the level and nature of additional funding the college will seek.** N/A
  - c. **What additional space, equipment, operating expenses, library, computer, or media resources, clerical/technical support, or other resources will be needed? Estimate the cost and indicate how these resource needs will be accommodated.** N/A
4. **New/Old Program Requirements:** See attached.

NEW PROGRAM REQUIREMENTS	OLD PROGRAM REQUIREMENTS
(3) CSC 255 Computer Networks (CSC 138 or CPE 138)	+++++
+++++	(9) Select at least three of the following:
(6) Select at least two of the following:	+++++
CSC 254 Network Security (fully classified graduate status in Computer Science, Software Engineering, or Computer Engineering)	+++++
+++++	+++++
+++++	+++++
CSC 258 Distributed Systems (CSC 204 and fully classified graduate status in Computer Science, Software Engineering, or Computer Engineering)	CSC 255 Computer Networks (CSC 138 or CPE 138)
CSC 275 Advanced Data Communication Systems (CSC 138 or CPE 138 or CSC 205)	CSC 258 Distributed Systems (CSC 204 and fully classified graduate status in Computer Science, Software Engineering, or Computer Engineering)
CSC 288F Special Topics in Computer Science – Network Communications (fully classified graduate status in Computer Science or Software Engineering, or instructor permission)	CSC 275 Advanced Data Communication Systems (CSC 138 or CPE 138 or CSC 205)
	CSC 288F Special Topics in Computer Science – Network Communications (fully classified graduate status in Computer Science or Software Engineering, or instructor permission)