



**Application for Offering a Course Using a
Distance Education Format**

APR 22 2004

1. Course Prefix and Number: **CIS 160**
Course Title: **Data Communications and Networking**

Course Description: Data communications and networking concepts including hardware, software, and transmission media; access methods and protocols; and network configurations are included. System design considerations are addressed. Emphasis is on local area networks; students will install a simple local area network. This is the first course in the Cisco Networking Academy Curriculum.

Course Objectives/Competencies:

Upon successful completion of this course, the student can:

- Describe the components of a data communications system.
 - Describe the common standards and protocols used in data communications systems.
 - Identify and explain the types of transmission media used for communications channels.
 - Describe common architectures for computer networks.
 - Describe the role of network operating systems.
 - Identify and explain the function of common network hardware.
 - Describe how data is transmitted.
 - Describe how devices such as repeaters, hubs, switches, bridges, routers, and gateways are used to connect networks.
 - Explain the OSI 7-layer model.
 - Install and manage a local area network.
 - Use a digital multimeter and explain basic electrical concepts.
 - Implement IP address and subnetting schemes.
 - Terminate cable and understand cable specifications.
2. Effective date (semester and year): First Summer Session, 2004
 3. Describe the type of distance learning delivery method to be used.

This course will be taught via the Internet.

4. Describe how the course will achieve, in new ways, the same learning outcomes as when the course is taught by traditional delivery methods.

This course will be taught as a web-based distance course, using an online course management system. Traditional features such as homework assignments and exams will be supplemented with online chats, threaded discussions, and web-based content delivery. Attendance at an orientation session and other “live” events may be required and will be listed in the course syllabus. Submission of assignments via email or a course management system drop box may also be required. If the course has a lab component, completion of lab assignments may require attendance onsite at LCC or other facilities.

5. Describe the availability of related services such as labs, library, research, and supplemental information.

Students have access to library research materials via the web, including Kentucky Virtual Library databases and other library databases. Students have access to traditional print research materials in local public libraries and via interlibrary loan.

6. For web courses: Describe how ADA compliance has been assessed to ensure accessibility of course content for students with disabilities.

The course will be screened for ADA compliance using the accessibility guidelines and/or tools at LCC’s Wider World Web site. Screening will take place before the course is listed in the printed or online schedule of classes.

7. Describe how appropriate levels of faculty-student and student-student interaction will be achieved.

Students may interact with the instructor via e-mail, telephone, fax, and student-faculty threaded discussions. Students may interact with each other via e-mail, telephone, fax, threaded discussions and web-based chat. Participation in threaded discussions may be required.

8. Describe any technical requirements for remote sites (ITV, computer hardware/software, and special equipment).

Technical requirements for web server space and the course management system are met. Specific technical requirements for students accessing the Kentucky Virtual University may be found at their web site. If needed, requirements for completion of lab assignments will be listed in the course syllabus.

9. Within the department, who should be contacted for further information about the proposed course:

Name: James Kolasa

4/16/2004 REV

Phone: 859.257.4872x4013

Email: jkolasa@uky.edu

**Signatures of Approval
for
Internal LCC Proposals**

Program/Area:

Computer Information Systems

Program/Area Coordinator:

Thurs Pogorelec

Date: 03/11/04

Division:

Behavioral Sciences and Information Systems Technologies

Division Program Development Committee Chair:

Anthony N. Ross

Date: 2/20/04

Division Chair:

Debbie Holt

Date: 3/11/04

Academic Council for Lexington Community College Chair:

[Signature]

Date: 4-21-04

This form is applicable for proposals that do not have to be submitted to the UK Senate.
Examples include but are not limited to the following:

- Application for Removal from General Education List
- Application for Inclusion on General Education List
- Addition to, Change in, or Deletion from *Lexington Community College Credit for External Experiences Manual*
- Application for Offering a Course Using a Distance Education Format



**ACADEMIC COUNCIL
FOR
LEXINGTON COMMUNITY COLLEGE**

PROPOSAL CHECKLIST

InitialDate**Faculty Member**

Prepares proposal

Obtains approval from program/area faculty and signature of program/area coordinator

Submits form to Academic Affairs and division Program Development Committee

Forwards proposal to appropriate KCTCS program development contact

Division Program Development Committee Chair

Calls meeting of committee

Conducts vote on approval of proposal

Signs proposal form and forwards proposal to Division Chair if committee

approves proposal, or sends proposal back to faculty member with suggestions if committee does not approve proposal

2/13/04
2/20/04
2/26/04

Division Chair

Places proposal on division meeting agenda

Conducts vote on approval of proposal

Signs proposal form and forwards proposal to Academic Council Chair if

division approves proposal, or sends proposal back to faculty member with suggestions if division does not approve proposal

2/20/04
2/27/04
3/11/04

Academic Council Chair

Places proposal on Academic Council meeting agenda when required materials are received by deadline

Circulates proposal to College faculty

Assigns primary reviewer for proposal

Invites faculty member responsible for proposal to Academic Council meeting

Sends proposal to Academic Council members

Conducts vote on approval of proposal

Signs proposal form if approved

Forwards proposal to the UK Senate Council and UK Registrar if

Academic Council approves proposal, or sends proposal back to faculty member with suggestions if Academic Council does not approve proposal

Notes:

- This checklist is applicable for all program and curriculum proposals.
- After Academic Council approval, the faculty member submitting proposal is responsible for making any requested changes and submitting revised form to the Academic Council recording secretary within one week.
- To ensure implementation for the following Summer session and Fall semester, proposals should be approved by Academic Council no later than the December meeting.
- To ensure implementation for the following Spring semester, proposals should be approved by Academic Council no later than the May meeting.
- Agenda items for Academic Council meetings are due by the 15th of the preceding month in order to be considered.
- For more information, consult the Academic Council web page at <http://www.uky.edu/LCC/PRES/Academiccouncil/academiccouncil.html>.