

Bus/CIT 2008-09 Initiative: Curriculum Update: Required MS Vista content in CIT curriculum

Summary:

The new Microsoft Vista operating system must be reflected in the CIT Curriculum. This requires critical updates in two essential Networking classes (CIS140 and CIS227N) plus three adviseable service class updates (CS120, CIS101, CIS103).

Description:

CIT curriculum is market driven - it must keep up with the rapid changes in many areas of the computer field. The predominance of the Microsoft environment drives changes in the Network AAS degree, where students must be proficient to be competitive. It also drives changes in CIT service courses where students are at a competitive disadvantage when they are not current in their knowledge.

This initiative addresses both of these student-driven needs.

Strategic Direction

- Achieve and sustain fiscal stability.
- Build organizational capacity and systems to support student success and effective operations.
- Commit to a culture of assessment of programs, services and learning.
- Position Lane as a vital community partner by empowering a learning workforce in a changing economy.

Learning Plan Goals

- Create innovative, flexible and collaborative programs that are responsive to current and emerging needs of students and employers.
- Enhance student transitions at all levels.
- Support connected learning through inter-disciplinary and collaborative learning strategies.

Student Affairs Plan Goals

- Commit to a culture of routinely assessing programs, services, and learning to encourage continuous quality improvement.
- Create innovative, flexible, and collaborative programs that are responsive to the needs of students and employers and facilitate a smooth transition from college to the workplace.

- Strengthen relationships with high schools, transfer institutions, community partners, and employers to enhance the student's preparation for and success in college, career, civic engagement, and community involvement.

College Council Priorities

- 1.b. Enrollment Management: Recruitment and Retention
- 1.c. Enrollment Management: Workforce Development
- 1.e. Enrollment Management: Increase Credit Enrollment Level
- 4.1 Responding to unit plans/council plans: Innovation
- 4.2 Responding to unit plans/council plans: Curriculum Development
- 5.2 Instructional Redesign: Leveraging Technology

Questions and Answers

How is the initiative linked to the Unit Plans most recently submitted?

1. *How does it continue the achievement of those goals?*
2. *If this is a continuation of an initiative started last year, make sure that relationship is clear.*

How is this initiative linked to the efficiencies and productivities plans you had last year?

1. *How does it continue the achievement of these plans?*
2. *If this is a continuation of an efficiency or productivity plan started last year, make sure that relationship is clear.*

The alignment and redesign of the CIT curriculum has been the focus of CIT planning all along, starting with the implementation of the CIT Core Curriculum as a separately credentialed certificate aimed at providing an essential foundation to many career choices. The proposed work in CIS140 and CIS227n is critical to continuing to meet this goal by keeping the curriculum up-to-date with market changes - in this case the advent of the Microsoft Vista operating system.

The overarching strategy is to prioritize for meeting this goal in the Networking AAS degree, where currency is essential to the viability of the program and the employability of students entering the marketplace.

CIT service classes are also an important part of the mix. They serve as a marketing tool, introducing students to the field and even for students who aren't pursuing a CIT credential they establish the credibility of the dept by creating a climate of trust that CIT curriculum is current. CIT service courses are an important part of the CIT enrollment mix, and by making these courses attractively up-to-date for students, who as consumers are already aware of the importance of MS Vista, this initiative also helps sustain both the

service to students as well as an important departmental FTE base. Because these courses play an important role in development of high school pathways through the College Now program, being current has an important PR function in that area as well.

Describe the resources needed:

Curriculum Development

- 350 hours of curriculum development to update 5 existing classes (CIS101, CIS103, CIS140, CIS227N, and CS120)

Funding: Curriculum Development

What specific measurable program outcomes do you expect to achieve with this initiative? The outcomes should be specific enough to be measurable. Also, outline the method that will be used to determine the results.

This initiative will result in:

- * improved employability for students who exit with MS Vista skills, whether they exit prior to completing the CAS Pathways certificate, after having gained that credential, or as part of the Network AAS graduating class.
- * sustainable development of curriculum by making existing classes current without developing new classes
- * sustained and hopefully increased FTE in the College Now program.

These outcomes are all directly reflected in data available for programs and certificates at Lane.

Department Priority:

5

Unit Resources:

The department provides the needed infrastructure for this curriculum - servers and server support - through ICP funds. The curriculum will be supported visibly in a wiki as a means for facilitating conversations and alignment within the related Pathway community, from high schools up to four-year institutions.

Approx \$10,000 of ICP funds were used this year specifically to create the necessary hardware upgrades to the labs 19/130 and 19/135 in order to support this curriculum.

This is a critical curriculum update.

Carl Perkins Funding Request

Curriculum Development Funding Request

1. List the following information

- *Course Numbers (titles if not currently offered)*
- *Instructor Name(s) who will work on the curriculum development*
- *Whether each of the courses is in, or has been through, the curriculum approval process*

CIS140 Op Environments: Managing Windows

Ron Little

Current offering

CIS227N Systems Support: Network and Operating Systems

Ron Little

Current offering

CIS101 Computer Fundamentals

Jim Bailey

Current offering

CIS103 Computer Fund: Systems at Work

Jim Bailey

Current offering

CS120 Concepts of Computing: Info Proc

Linda Loft

Current offering

2. List each course number (or title) and the materials to be created for each class

- *Instructional goals, objectives, syllabi and outlines*
- *Lab instruction packets*
- *Practice, quiz, presentation &/or demonstration materials*
- *Other (specify)*

CIS101

CIS103

CIS140

CIS227N
CS120

Update objectives, outlines, and instruction materials to reflect change in operating system from MS Windows XP to MS Vista.

3. List each course number (or title) and give your timeline for beginning and completing each course curriculum development.

CIS101
Begin 7/08 and end 9/08

CIS103
Begin 7/08 and end 9/08

CIS140
Begin 7/08 and end 9/08

CIS227N
Begin 7/08 and end 9/08

CS120
Begin 7/08 and end 9/08

4. What are up to 3 departmental instructional goals that are met through the development of curriculum in each class?

CIS140
CIS227N

Both play a pivotal role in the CIT Networking curriculum, providing baseline and advanced operating system knowledge required of all computer science professionals.

CIS101
CIS103
CS120

These are the literacy service classes offered by CIT. CIS 101 plays a dominant role in College Now efforts with widespread adopting and enrollment/FTE, and a critical "feeder" role moving students from high school to continued studies at Lane. CIS103 is a new and successful service class for Business students, providing essential practical literacy aimed at administrative assistants and accountants, but appropriate for anyone with computer responsibilities in an office setting. CS120 is the premiere service literacy class for a wide range of Career and Technical degrees and areas of study.

1. The critical goal of keeping the CIT Network degree current and competitive depends on the changes to CIS140 and CIS227N.

2. The literacy classes are an essential enrollment driver and functional link with area high schools. These are among the most cost-effective courses that the dept offers.

3. CIS103 and CS120 are critical support classes for broad areas of study within other departments at Lane.

4. All classes are required to keep up with the market to meet department goals of producing market-competitive students both for CIT degrees and in areas that use CIT service classes.

5. List each course number (or title) and give the value of the development of curriculum in each course to other faculty members.

CIS101

CIS103

CIS140

CIS227N

CS120

The quality of the department is implied by the quality of it's flagship AAS degree programs. All areas benefit from having the Network degree be clearly up-to-date.

The affected service classes serve as feeder classes for all other areas of the CIT curriculum, and many/most areas of the college. So these classes have a corresponding marketing role for the college aside from meeting student needs for entering the marketplace with current knowledge. All faculty benefit as a result.

6. List each course number (or title) and say how many students will be served by the development of curriculum in each class.

For the 2006-2007 academic year these courses served the following number of students:

CIS101 - 368 + (328 RTECH & College Now)

CIS103 - 145

CIS140 - 156 + (1 RTECH)

CIS227N - 52

CS120 - 673 + (34 RTECH & College Now)

for a total of 1394 + (363 RTECH & College Now).

So far for the 2007-2008 academic year these courses have served the following number of students:

CIS101 - 315 + (114 RTECH & College Now)

CIS103 - 109

CIS140 - 122

CIS227N - (hasn't been offered)

CS120 - 488 + (24 RTECH & College Now)

for a total of 1034 + (138 RTECH & College Now).

7. List each course number (or title) and give the specific benefits to students that you expect from the development of curriculum in each class.

CIS101

CIS102

CIS140

CIS227N

CS120

The benefit is quite simple here - market currency and being competitive in the employment marketplace.

8. List each course number (or title) and give the specific benefits for diversity that you expect from the development of curriculum in each class.

CIS101

CIS103

CIS140

CIS227N

CS120

The general diversity picture in computer technical areas is one of increasing diversity in the computer science student population. This is a natural consequence of improving the quality and currency of the Network AAS courses, CIS140 and CIS227N.

The population in the CIT service courses is particularly diverse, including as it does the populations from populations that are different from the traditional computer technical fields. An excellent case in point is CIS103, which serves the Business dept population with a significantly higher number of (frequently single) female students with immediate, short-term employment needs. Because CIS101 and CS120 are used so widely across the curriculum they essentially touch on every diversity population that is represented at Lane.

9. List each course number (or title) and give the specific benefits to sustainability that you expect from the development of curriculum in each class.

CIS101
CIS102
CIS140
CIS227N
CS120

This work is inherently sustainable, incremental updating in existing classes, taught with existing resources and staffing.

Because the service classes are an important part of the enrollment profile, maintaining currency and viability there is essential to the sustainability of CIT offerings.

10. List each course number (or title) and give the specific effects on distributed learning that you expect from the development of curriculum in each class.

CIS101
CIS102
CIS140
CIS227N
CS120

CIT is one of the leaders at Lane in developing curriculum online, in making curriculum available in varying formats (e.g. video delivery and not just text-based), and in using innovative tools to distribute curriculum (e.g. using a wiki). These courses when re-aligned and developed will contribute to that base of online curriculum.

This is particularly the case for the service classes, where the target population is often high school students, non-traditional students who may only be taking the one computer service class as an entry into their education, and for working Business 'single mom' students who have intense demands on their schedules.

Hours requested for Curriculum Development funding:

Please enter the amount of one of the following:

- 100 hours maximum for new development.
- 70 hours maximum for course revision
- 50 hours for 3-4 credit conversion
- other (use if multiple courses addressed in one initiative)

Do not enter any characters other than numbers and a decimal.

How many hours are you requesting? If there are multiple courses addressed in the initiative, please list each course number (or title) and give the number of hours requested for each course.

350

Can this initiative be partially funded?

Yes

Partially funded curriculum development HOURS requested:

140

Explanation of effect of partial funding:

The updates for CIS140 and CIS227N are critical for the Networking AAS degree program.

The updates to the service classes, if not done, would tend to disadvantage those students, but wouldn't cripple the functioning of those classes.

Technology Fee Funding Request