Agenda Item #15-42
Effective Fall 2015
Effective Fall 2016, with revisions

Eastern Illinois University
Revised Course Proposal
MIS 2000, Introduction to Business Logic and Programming Skills

Banner/Catalog Information (Coversheet)

1. **____New Course or __X__Revision of Existing Course**

2. **Course prefix and number:** MIS 2000

3. **Short title:** Intro Bus and Programming

4. **Long title:** Introduction to Business Logic and Programming Skills

5. **Hours per week:** _3__ Class _0__ Lab _3__ Credit

6. **Terms:** __ Fall __ Spring ___ Summer _X__ On demand

7. **Initial term**: _X__ Fall ___ Spring ___ Summer Year: __2015__

8. **Catalog course description:** A study of computer logic and programming using a procedural programming language. Topics include problem solving process, control structures, functional decomposition, and data structures.

9. **Course attributes:**

   General education component: __N/A

   ___ Cultural diversity ___ Honors ___ Writing centered ___ Writing intensive ___Writing active

10. **Instructional delivery**
    Type of Course:

    _X_ Lecture ___ Lab __ Lecture/lab combined ___ Independent study/research

    ___ Internship ___ Performance ___ Practicum/clinical ___ Other, specify: _____

    Mode(s) of Delivery:

    _X_ Face to Face _X_ Online ___ Study Abroad

    _X_ Hybrid, specify approximate amount of on-line and face-to-face instruction: A maximum of 49% of the course will be online.

11. Course(s) to be deleted from the catalog once this course is approved. _None. This is a revision of an existing course.

12. **Equivalent course(s):** _None

    a. Are students allowed to take equivalent course(s) for credit? ___ Yes _X_ No

13. **Prerequisite(s):** BUS 1950 with C or better, or permission of the Associate Chair, School of Business.

    a. Can prerequisite be taken concurrently? ___ Yes _X_ No

b. Minimum grade required for the prerequisite course(s)? C

c. Use Banner coding to enforce prerequisite course(s)? ___ Yes _X_ No

d. Who may waive prerequisite(s)?

___ No one ___ Chair ___ Instructor ___ Advisor _X_ Other (specify): Associate Chair

14. Co-requisite(s): _____

15. Enrollment restrictions

a. Degrees, colleges, majors, levels, classes which <u>may</u> take the course: All

b. Degrees, colleges, majors, levels, classes which may <u>not</u> take the course: None

16. Repeat status: _X_ May not be repeated ___ May be repeated once with credit

17. Enter the limit, if any, on hours which may be applied to a major or minor: _3__

18. Grading methods: _X_ Standard ___ CR/NC __ Audit ___ ABC/NC

19. Special grading provisions:

___ Grade for course will <u>not</u> count in a student's grade point average.

___ Grade for course will <u>not</u> count in hours toward graduation.

___ Grade for course will be removed from GPA if student already has credit for or is registered in: _____

___ Credit hours for course will be removed from student's hours toward graduation if student already has credit for or is registered in: _____

20. Additional costs to students:
Supplemental Materials or Software _None_____

Course Fee _X_No ___Yes, Explain if yes_____

21. Community college transfer:

_X_ A community college course may be judged equivalent.

___ A community college may <u>not</u> be judged equivalent.

Note: Upper division credit (3000+) will <u>not</u> be granted for a community college course, even if the content is judged to be equivalent.

Rationale, Justifications, and Assurances (Part I)

1. _X__Course is required for the major(s) of _MIS_____

   _X_ Course is required for the minor(s) of _MIS_____

   ___ Course is required for the certificate program(s) of _____

   ___ Course is used as an elective

2. **Rationale for proposal**:
   This course is an integral part of the MIS Major core. It gives students an introduction into computer logic and programming skills. The main changes to the existing class are (a) the removal of the coverage of MIS-related careers in order to cover more logic skills and (b) the addition online and hybrid delivery methods to the traditional face-to-face. Hybrid and online education have been successfully used for similar classes in other universities in the U.S.

3. **Justifications for (answer N/A if not applicable)**

   Similarity to other courses: This is a revision of an existing course.

   Prerequisites: This course is an introductory course in management information systems. Because knowledge of computers is needed, students must complete the prerequisite BUS 1950 Computer Concepts and Applications for Business or equivalent.
   Co-requisites: N/A

   Enrollment restrictions: N/A

   Writing active, intensive, centered: N/A

4. **General education assurances (answer N/A if not applicable)**

   General education component: N/A

   Curriculum: N/A

   Instruction: N/A

   Assessment: N/A

5. **Online/Hybrid delivery justification & assurances (answer N/A if not applicable)**

   Online or hybrid delivery justification: EIU School of Business continues to deliver high quality education through traditional methods of teaching and technologically advanced methods such as online and hybrid education. Students are able to watch recorded videos whenever they prefer, stop the video, take notes and ask questions of the instructor and their peers.

   Instruction: Lectures from the face-to-face courses may be recorded and posted online for students to view. Other online components (e.g., tutorials, videos, discussions) will be included. All faculty who will deliver this course online are/will be OCDI (or appropriate equivalent) trained.

   Integrity: Students will take exams through an online test taking monitoring system, or they will take them supervised at a community college in their area.

Interaction: At the discretion of the faculty, provisions and requirements would vary but generally will utilize Email, Web-Based Discussions, and Web-conferencing.

Model Syllabus (Part II)

Please include the following information:

1. Course number and title
   MIS 2000 Introduction to Business Logic and Programming Skills

2. Catalog description
   A study of computer logic and programming using a procedural programming language. Topics include problem solving process, control structures, functional decomposition, and data structures.

3. Learning objectives.
   Upon successful completion of this course, students will be able to:
   1. Comprehend and apply formal logic tools; (CT2)
   2. Identify and analyze business requirements needed to successfully write application programs; (CT1-2)
   3. Use Visual Basic as an application language to implement logic and solve problems; (CT4)
   4. Design graphical user interface (GUI); and
   5. Demonstrate the basics of computer programming (QR1-2, WR1)

4. Course materials.
   An Introduction to Programming Using Visual Basic 2012 (9th Edition), David Schneider, Prentice Hall, 2014.

5. Weekly outline of content.

Week	Class Content	Coverage
1	Introduction to course. Discuss current trends in the information technology and computer programming field.	Two 75-minute class period equivalents
2-3	Introduction to structured design: basic control structures. Data hierarchy. Pseudocode. Desk-checking.	Four 75-minute class period equivalents
4	Controls and events. Numbers and strings. Input and output.	Two 75-minute class period equivalents
5	Variables and arrays.	Two 75-minute class period equivalents
6-7	IF THEN ELSE and CASE control structures. Character-string and numeric consideration. Decisions. Relational and logical operators.	Four 75-minute class period equivalents
8-9	Fundamentals of sequential processing. DO WHILE and FOR NEXT processing. Input statements and stream reader.	Four 75-minute class period equivalents
10-11	Design techniques including programming and modularization techniques.	Four 75-minute class period equivalents
12-13	Use of controls and objects. List boxes, combo boxes,	Four 75-minute class

Week	Class Content	Coverage
	file-opening control. Multiple document interface.	period equivalents
14	User decisions and implications on logic. Check boxes, radio buttons, scroll bars, and timer controls.	Two 75-minute class period equivalents
15	Other Topics	Two 75-minute class period equivalents
16	Final Exam	Two hours
	Total	Thirty 75- minute class period equivalents (37.5 hrs)+ Two-hour final exam

6. Assignments and evaluation, including weights for final course grade.

The grade components and weights may vary by the instructor, but are generally considered as follows:

Examinations and quizzes: 20%

Lab exercises, programming projects, and/or homework: 60%

- Examples of Lab exercises and programming projects using Visual Basic:
  - 1: Demonstrating controls and events, numbers and strings, input and output, IFTHENELSE and CASE control structures, character-string and numeric considerations, decisions, relational and logical operators.
  - 2: Fundamentals of sequential process, Do While and For Next processing.
  - 3: Design techniques including structured programming and modularization techniques.
  - 4: Use of controls and objects, list boxes, combo boxes, file-opening control. Multiple document interface.

Final Examination: 20%

Total: 100%

7. Grading scale.

90% or better A, 80-89% B, 70-79% C, 60-69% D, Below 60% F

8. Correlation of learning objectives to assignments and evaluation.

Objective	Midterm and Quizzes	Projects, lab exercises, homework	Final
1	X	X	
2	X	X	X
3	X	X	X
4	X	X	X
5		X	X

Date approved by the discipline: Approved by MIS/OM Discipline on November 4, 2014
Date approved by the department or school: 12/3/14
Date approved by the college curriculum committee: 1/21/15
Date approved by the Honors Council ***(if this is an honors course):***
Date approved by CAA: 2/20/15 **CGS:** Not Applicable.