

## Faculty Senate Course Form

Effective Date:

Submission Date:

Department:

College of: Course

Contact Person:

Prefix:

Create New, Revise, Inactivate, or Reactivate:

Course #:

### Course Form:

- Used to create new course numbers or new prefixes.
- Used to change Name, Grading, Hours, Description, Reactivate
- Used to inactivate a course from the current catalog. Courses are never deleted. They are made inactive and can be legislated to become active again.

1. Purpose/Justification for the Changes:

2. Is this related to, and/or affect, any other department/college/unit curricula or programs at Pittsburg State University? *If "Yes", please provide an explanation. Provide documentation of any discussions (e.g. copies of emails, memos, etc.) that have occurred.*

Yes

No

3. Is this course to be considered for General Education?

*If "yes" this requirement will need approval of the General Education Committee after the revisions have been approved by Faculty Senate. The General Education Course Approval form will also need to be submitted.*

Yes

No

4. Will this course be required of any education majors?

*If "yes," this requirement will need approval of the Council for Teacher Education before upload to " College Curriculum Legislation" in SharePoint.*

Yes

No

5. Will additional resources or costs be required?

Yes

No

If so, what will be needed?

PSU Faculty Senate 24-25

6. Will any additional course fees be required (e.g. equipment, clothing, travel, licensing, etc.)?  
*If "yes," complete the Course Fee Form on the Faculty Senate website, it will need to gain approval of the President's Council.*

Yes                      No

7. Objectives/Student Learning Outcomes for NEW courses only, as it will appear in the syllabus:  
**Attach with upload.**

8. Assessment Strategies (e.g. exams, projects, university rubric, etc.), as it will appear in the syllabus:  
**Attach with upload.**

**Course Numbers cannot be changed, only created.**

	Existing	New/Proposed
Title:		
Course Number:		
Credits:		
Grading System:		
Pre/Co-Requisite(s):		
Course Description:		

## Authorization Sign-Off

### Checklist

- Required fields completed.
- Syllabus attached for new courses
- Assignment Strategies Attached

-Approved: Department Chair/Director

Date: \_\_\_\_\_

Signature, Chair/Director: \_\_\_\_\_

*Alexander D. Binda*

-Approved: College Curriculum Committee

Date: \_\_\_\_\_

Signature, Committee Chair: \_\_\_\_\_

*Jennifer Purvaley*  
*Paul W. Grier*

-Approved: Dean of College

Date: 12/18/24

Signature, Dean: \_\_\_\_\_

-Approved: Council for Teacher Education (if applicable)

Date: \_\_\_\_\_

Signature, Council Chair: \_\_\_\_\_

-Approved: University Undergraduate Curriculum Committee

Date: \_\_\_\_\_

Signature, Committee Chair: \_\_\_\_\_

-Approved: Faculty Senate

Date: \_\_\_\_\_

Signature, Recorder Faculty Senate: \_\_\_\_\_

Originating Departments(s): After completing this form, please upload it to the SharePoint, within the appropriate College folder, "Preliminary Legislation", to allow for review and questions. Any modifications should be saved as "original file name.v2.docx" and uploaded as well.

Following final College Curriculum Committee approval, please apply the appropriate signatures, and send them to your College Administrator.

Kelce College of Business CIS courses to be inactivated:

CIS 130	CIS 420	CIS 610
CIS 227	CIS 430	CIS 615
CIS 228	CIS 470	CIS 625
CIS 230	CIS 539	CIS 640
CIS 325	CIS 589	CIS 670
CIS 350	CIS 603	CIS 671
CIS 380	CIS 604	CIS 690

#### Course Descriptions:

CIS-130 Computer Information Systems (3 hours). An introduction to the use of computer systems in business and industry including hands-on use of productivity software. Concepts covered include computer hardware and software, data security, and computer-based information systems.

CIS-227 Workshop (\_\_\_) (1/2 - 5 hours). Specialized instruction offered as a short-term workshop. May be repeated when the title is different. Neither course nor credit hours can be counted toward a degree, but may be utilized in creation of a credential certificate. May be graded as pass/fail or letter grade.

CIS-228 Workshop (\_\_\_) (1/2 - 5 hours). Specialized instruction offered as a short-term workshop. May be repeated when the title is different. Neither course nor credit hours can be counted toward a degree, but may be utilized in creation of a credential certificate. May be graded as pass/fail or letter grade.

CIS-230 Introduction to Programming (3 hours). The course introduces students to the basic elements and concepts of object-oriented programming. The language used as the tool to convey the concepts of programming will be a programming language such as Visual Basic or C++. Prerequisite: MATH 019 Intermediate Algebra or MATH 110 College Algebra with Review or MATH 113 College Algebra.

CIS-240 Intermediate Programming (3 hours). The course covers intermediate concepts of object-oriented programming using an advanced programming language such as Java. It covers object-oriented programming concepts such as advanced algorithm development, modeling using UML, design concepts, pattern development, and application architecture. It is intended to be a second course in programming concepts. Prerequisite: CIS 230 Introduction to Programming. Corequisite: CIS 380 Systems Analysis and Design.

CIS-325 Advanced Visual Basic Programming (3 hours). This course covers advanced topics in Visual Basic and the Visual Studio.Net program development environment. It covers advanced object-oriented programming concepts as well as three-tier application development and deployment using Visual Basic.Net. Prerequisite: CIS 230 Introduction to Programming and 55 hours completed. CIS-345 Object Oriented Programming Using Java (3 hours). An introduction to advanced object-oriented programming methodologies using the language Java. Prerequisite: CIS 240 Intermediate Programming and junior standing.

CIS-350 Introduction to System Administration (3 hours). An introduction to the concepts and practices of computer systems administration. Topics include the installation and management of systems and applications and hardware components including network devices, access control for system resources; the role of administrative policies and procedures, identification of threats and countermeasures; operational controls, and audit practices required for system security and system recovery. Prerequisites: CIS 240 Intermediate Programming and junior standing.

CIS-380 Systems Analysis and Design (3 hours). An introduction to methods used to design computer applications. The course will explore traditional and object-oriented methods used for the analysis and design of large application systems. It will focus on Object Oriented Analysis (OOA) and Object-Oriented Design (OOD) methodologies. Prerequisite: CIS 240 Intermediate Programming and junior standing.

CIS-420 Management Information Systems (3 hours). Survey of the principle concepts with emphasis on computer-based transactional and management information system. Computer systems, files and file processing, systems analysis and design, managerial, organizational and social impacts. Prerequisites: "C" in CIS 130 Computer Information Systems, junior standing, or permission of instructor.

CIS-430 Data Analytics: Business Intelligence (3 hours). The course focuses on the collection, storage, access, and manipulation of standard and large datasets; data visualization; predictive analytics; and clustering. Various data mining techniques will be discussed. Analytical tools and programming packages will be introduced and utilized. Prerequisite: CIS 420 Management Information Systems.

CIS-470 Network and Information Security (3 hours). Concepts of communications, computer networking principles, and survey of technical components of a distributed computer system all with an emphasis on network security. Prerequisite: CIS 230 Introduction to Programming.

CIS-539 Workshop (\_\_\_) (1/2 - 5 hours). Specialized instruction offered as a short-term workshop. May be repeated when the title is different. Neither course nor credit hours can be counted toward a degree, but may be utilized in creation of a credential certificate. May be graded as pass/fail or letter grade.

CIS-589 Workshop (\_\_\_) (1/2 - 5 hours). Specialized instruction offered as a short-term workshop. May be repeated when the title is different. Neither course nor credit hours can be counted toward a degree, but may be utilized in creation of a credential certificate. May be graded as pass/fail or letter grade.

CIS-603 Senior Honors Project 1 (3 hours). The Senior Honors Project is an optional way to earn Academic Honors for students who are members of the Honors College. The course is a two-semester sequence where the student undertakes a year-long research project or creative endeavor under the guidance of a faculty member to expand their knowledge in an area integral to their academic growth and development. The Senior Honors Project 1 is the first course in the sequence and will focus on the fundamental development of the project and preliminary scope of work to be completed. Students will receive a grade of A, B, IP (in progress) or NC (no credit) for each enrollment of the Senior Honors Project. A grade of NC voids the process and the student must then complete their Academic Honors in the traditional way.

CIS-604 Senior Honors Project 2 (3 hours). The Senior Honors Project is an optional way to earn Academic Honors for students who are members of the Honors College. The course is a two-semester sequence where the student undertakes a year-long research project or creative endeavor under the guidance of a faculty member to expand their knowledge in an area integral to their academic growth and development. The Senior Honors Project 2 is the culmination of the project started in Senior Honors Project 1 and will result in a public presentation of the work. Students must earn a grade of A or B to receive credit for this course. Failure to complete the course with a grade of A or B will void this option and students will have to satisfy their Academic Honors requirement in the traditional way. There will be no IP (in progress) or IN (incomplete) grades for this course. Projects must be done by the end of the spring term to count towards Academic Honors requirements. Prerequisite: Senior Honors Project 1.

CIS-610 Internship (1-3 hours). This course requires an in-depth involvement in on-going project under direct professional supervision. A project may be on-campus or with a business, financial institution or governmental agency. A formal report of project activities must be submitted to the course instructor. Students must apply for admission to the course and selection will be made by the course instructor. Prerequisites: Junior standing and consent of instructor.

CIS-615 Database Management (3 hours). Analysis and design of large integrated data bases. Logical and physical representation of data. Storage and retrieval mechanisms and languages. Survey of existing systems. Roles of the Database Manager and Analyst. Prerequisite: CIS 240 Intermediate Programming and junior standing.

CIS-625 Advanced Database Management (3 hours). Introduces students to advanced database design and implementation techniques such as advanced SQL, data warehousing, object-oriented database applications, distributed databases, etc. The course will provide students with opportunities in learning through projects and collaboration. Prerequisite: CIS 615 Database Management. Recommended corequisite: CIS 640 E-Business and Application Development.

CIS-640 E-Business Application Development (3 hours). This course covers the development of Internet- and intranet- based business applications. It introduces the application architecture of Internet-based applications as well as the tools necessary to develop those applications. Topics include Web services, server application development, database connectivity, as well as tools such as XML, CSS, Perl, Javascript, and others. Prerequisites: CIS 240 Intermediate programming and CIS 380 Systems Analysis and Design. Recommended corequisite: CIS 625 Advanced Database Management.

CIS-670 Management of Computer Security (3 hours). Managerial aspects of information system security are over-viewed. Topics include law and ethics compliance, governance and strategic planning of information security, security policy development, and risk management. Prerequisite: CIS 470 Network and Information Security.

CIS-671 Information Assurance and Computer Security II (3 hours). Information systems security models, software security and systems lifecycle management, policy development, personnel responsibilities, contingency planning, physical security and administrative controls. Prerequisite: CIS 670 Management of Computer Security and junior standing.

CIS-690 Topics in Computer Science (\_\_\_\_) (1-3 hours). Computing topics consistent with current interests of staff and students. May be repeated with different topics for a maximum of 6 hours. Prerequisite: CIS 420 Management Information Systems or ACCTG 420 Accounting Information Systems.

CIS-715 Database Management (3 hours). Analysis and design of large integrated data bases. Logical and physical representation of data. Storage and retrieval mechanisms and languages. Survey of existing systems. Roles of the Database manager and Analyst. Prerequisite: CIS 240 Intermediate Programming and junior standing or permission of instructor.

CIS-720 Management Information Systems (3 hours). Survey of the principle concepts with emphasis on computer-based transactional and management information system. Computer systems, files and file processing, systems analysis and design, managerial, organizational and social impacts. Prerequisites: "C" in CIS 130 Computer Information Systems, junior standing, or permission of instructor.

CIS-740 E-Business Application Development (3 hours). This course covers the development of Internet- and intranet- based business applications. It introduces the application architecture of Internet-based applications as well as the tools necessary to develop those applications. Topics include Web services, serve application development, database connectivity, as well as tools such as XML, CSS, Perl, JavaScript and others. Prerequisites: CIS 240 Intermediate Programming, CIS 280 Systems Analysis and Design, or permission of instructor. CIS 625 Advanced Database Management is recommended as a co-requisite.

CIS-801 Topics: (\_\_\_\_) (1-3 hours). A study of an area of Information Systems theory or applications. A specific topic will be defined each time the course is offered. May be repeated if the topic is different. Prerequisite: CIS 420 Management Information Systems and permission of instructor.