

Bradley University Senate
Agenda
Second Regular Meeting of the 2008-2009 Senate

3:10 P.M. October 16, 2008
Michel Student Center Marty Theater

- I. Call to order
- II. Announcements
- III. Approval of Minutes
 - A. First Regular Meeting 2008-2009 September 18, 2008 (p. 4)
- IV. Call for items to be added to the Agenda
- V. Reports from Administrators
 - A. President Glasser
 - B. Interim Provost Bolla
- VI. Report from Standing Committees
 - A. Committee on Curriculum & Regulations
 - i. Sub Committee on Curriculum
 - 1. **Course Deletion** (p. 10)
College of Engineering and Technology
CE 550 Geoenvironmental Engineering
 - 2. **Course Modifications** (p. 10)
College of Engineering and Technology
ME 351 Engineering Material Science 1

 - College of Education and Health Sciences
NUR 200 Fundamentals of Nursing
NUR 203 Fundamentals of Nursing Practicum
NUR 303 Research in Nursing
NUR 316 Adult Health II: Medical Surgical
NUR 317 Adult Health II: Medical Surgical
Practicum
NUR 405/406 Cooperative Education in Nursing
NUR 409 Senior Practicum
NUR 410 Adult Health IV: Nursing Care of the
Patient with Multi-System Challenges
NUR 415/416 Cooperative Education in Nursing
Practicum
NUR 417 Senior Practicum II

3. **Course Addition** (p. 13)
College of Education and Health Sciences
ETE 495 Student Teaching in Early Childhood K-8-13

4. **Program Modification** (p. 13)
College of Education and Health Sciences
Elementary Education

College of Liberal Arts and Sciences
Social Work

5. **Program Addition** (p.14)
College of Communication and Fine Arts
Communication
Sports Communication Concentration

Course Additions

Com 160 Sports, Media and Society
Com 260 Sports Writing and Announcing
Com 265 International Issues and Ethics in Sports
Com 360 Digital Journalism
Com 460 Sports Promotion and Publicity

ii. The Graduate School

1. **Program Modification** (p. 16)
Computer Information Systems & Computer
information Systems/Computer Systems

2. **Course Additions** (p. 16)
FIN 628 Socially Responsible Financial Policy
CE 650 Site Remediation
CS 612 Automata, Computation and Complexity
CS 635 Data Communications and Networks
CS 670 Database Management Systems
CS 690 Advanced Topics on Software Engineering

3. **Course Deletions** (p. 17)
CE 550 Geoenvironmental Engineering
CIS 606 Software Systems Design
CIS 608 System Specification and Development
CS 682 Theory of Computation
CS 615 Software Engineering I
CS 643 Data Communications and Distributed Computing
CS 609 Database Management
CS 616 Software Engineering II

4. **Course Modification** (p. 19)
CIS 607 File Organization and Management

- VII. Reports from Ad Hoc Committees
- VIII. Unfinished Business
- IX. New Business
- X. Other Business
 - A. Report from Student Senator
- XI. Adjournment

**BRADLEY UNIVERSITY SENATE 2008—2009
MINUTES
FIRST REGULAR MEETING, 18 SEPTEMBER 2008**

I. Call to Order

The meeting was called to order at 3:13 p.m.

II. Announcements

The New University Senate Website was launched today. Molly Cluskey thanked Daniel Manson and Diana Randall for their help with the website. New information will be up by Monday (9/22/08)

III. Approval of Minutes

A. Seventh Regular Meeting of 2007—2008, 7 May 2008

Claire Etaugh made a motion to approve the minutes of the Seventh Regular Meeting of the University Senate. The motion was seconded. The motion passed.

B. Special Meeting of 2008-2009 Senate, 7 May 2008

Alan Galsky made a motion to approve the minutes of the Special Meeting of the 2008-2009 University Senate. The motion was seconded. The motion passed.

IV. Call for items to be added to the agenda

There was nothing to be added to the agenda.

V. Reports from Administrators

A. Report from President Glasser:

President Glasser welcomed back the senators and extended her wishes that the semester had begun well for all.

She announced that she would temporarily suspend the search for a new provost. This conclusion was reached after much reflection as well as consultation with Deans, the Senate Executive Committee, and University Senate President. Given the upcoming NCA accreditation, a need for continuity in the provost's post, and the desire to finish searches for three other "cabinet-level" positions, President Glasser has asked Bob Bolla to remain in his role as interim provost for the academic year. President Glasser has confidence in the strength of our academic programs, our academic leaders, and Bob Bolla. With an accreditation looming, President Glasser feels that there are more important situations that we must address before we look for a permanent provost. Once these others searches have been finished, she will authorize a national search for a new provost.

Three other searches will commence immediately. (1) President Glasser has asked Gary Anna to chair the search committee for a vice president for advancement. (She noted, however, that she will continue with her own efforts in this area as much as the numerous duties of a university president will allow). (2) Alan Galsky will head the search committee for a vice-president of enrollment management. (In order to attract the best candidates, it was deemed necessary to make the position into that of a vice president). Finally, (3) Jeff Huberman will chair the search committee to find a vice president for marketing. President Glasser feels that appointments in these areas are necessary in order to move the institution forward and in order to keep enrollment stable.

President Glasser announced new advertising efforts. Flags and banners will be placed around the perimeter of campus on special days and for special events. Bradley

will soon have large advertisements inside the Peoria and Bloomington airports; the content of the billboards will alternate between athletics and academics.

According to the President, Bradley already has \$113 million of its \$150 capital campaign.

Enrollment trends, she reported, are of some concern and, hence, the decision to hire a director of enrollment. The official final count has not been determined, but we currently have 1,035 new, first-year students (down slightly from what had been projected) and only 286 transfer students (down significantly from previous years). Our freshman retention rate was 87.7%, which is higher than the national average, of 82.5% for similar schools.

The emergency warning systems will continue to be tested and improved. Live tests, according to President Glasser, will be conducted in the near future.

She mentioned that the campus weathered recent storms fairly well. There were a few leaks in some buildings as well as some damage at the construction site for the new arena (which may slightly delay the timetable for completion of the arena).

Finally, President Glasser mentioned the weekly e-mail summaries of her activities that she sends out on Fridays.

- Marty Craig asked whether the emergency warnings that are sent via text-message and those broadcast over the public address system are the same. President Glasser responded that they are designed to be two separate systems.
- Sandra Perry inquired about a time-table for the start of the provost search and about whether the provost will come from an academic background where he or she has been tenured and promoted. President Glasser was not sure of a specific time-table at this point; she said, however, that the permanent provost would have academic credentials and would be fully academically vetted.

B. Report from Interim Provost Bolla:

Provost Bolla conveyed his hopes that the semester has started well.

His goal as interim provost is to set and to enhance Bradley's academic status, which he considered in terms of three areas:

(1) Faculty: Provost Bolla would like to continue to hire and retain the best faculty. There is continuing work on a faculty compensation initiative. Data are being analyzed for salary comparisons to peer institutions. Once salary differentials are established, Gary Anna and President Glasser will be consulted so as to develop a plan to set goals. Eventually, other areas of compensation (e.g. TIAA-CREF) will be evaluated. OTEFD will be reorganized so as better to aid faculty. A new, full-time director of OTEFD will be hired

(2) Students: Programs will be reviewed in order to promote ones that are already excellent and to help strengthen others need help maximizing their potential. Input will be sought for ways to develop new programs on the undergraduate or graduate levels. In this regard, a new undergraduate degree in Sports Communication will start soon. Likewise, a new "Three-Two" program in Chemistry and Biochemistry will be launched. Furthermore, a new, pre-professional, health advising center, somewhat akin to the pre-law advising center, will be created. Finally, there will be an attempt to enhance graduate programs; one of the ways to do this will be to aid ways in which graduate students can obtain funding, possibly through the return of the GRASP program

(3) Planning: At present, the university is preparing for the visit from the Higher Learning Commission in 2010. Claire Etaugh is heading the accreditation steering committee. Tied into this is the issue of assessment, to which BUCCS conversations will be devoted this year. This year we must focus on planning and implementing the new engineering-business convergence center. Work will continue on putting the strategic

plan into practice by helping departments and colleges find their role within the plan. Finally, time and energy will be devoted to the topic of Centers of Excellence that were listed in the strategic plan so as to develop one or more of these centers.

- A question was raised pertaining to health care benefits offered by Bradley and the fact that newer faculty must pay a greater portion of their salary for health care because—on account of their recent arrival—they have significantly lower pay than faculty who have been at Bradley for a long time. Provost Bolla referred the question to Gary Anna, whom he thought was in a better position to respond to the question. Gary Anna responded that Bradley was in the last year of its contract with its present health plan provider and that the option remainder for restructuring of the plan with the upcoming contract. He also pointed out, given Bradley’s size and situation, that the health plan we have is good when it is compared with other institutions to whom we might be compared.
- Tim Koeltzow asked for clarification on whether programs deemed as “under-serving” programs would be subject to program review. Dr. Bolla stated that there would be program review for broadly selected programs, and not targeted ones.
- George Brown asked about a time-line for hiring a new director of OTEFD. Provost Bolla responded that he hoped to start the search as soon as possible.
- A senator raised the issue of when the discussion of the faculty salary initiative would formally be address. Dr. Bolla thought that it may need to be done in October as this is when the budget for the upcoming year is decided.

VI. Report from Standing Committees

Elections:

Brad Andersh reported on the results of elections:

(1) Committee on Tenure, Promotion, and Dismissal

Ahmad Fakheri—Member

Kristi McQuade—Member

Celia Johnson—Member

Julie Baylor—Alternate

(2) Committee on Contractual Arrangements

Kristi McQuade—Faculty Representative

Pratima Gandhi—Administrative Representative

(3) Faculty Grievance Committee

Cindy Brubaker

Riyadh Hindi

Hwa Lee

VII. Reports from Ad Hoc Committees

No reports given

VIII. Unfinished Business

CUSHR Committee Proposal: The Seventh Meeting of the 2007-2008 University Senate (7 May 2008) was stopped in order to provide time for the Special Meeting of the 2008-2009 University Senate (in which elections for new senators and officers needed to take place).

Technically, the vote on the CUSHR Committee proposal that took place was not valid. Molly Cluskey is now requesting that an ad hoc committee (Bernie Goitein, Ross Fink, and Wendy Schweigert) look into the issue and report to the October or November Meeting of the University

Senate). [At this point, for people new to the University Senate, Molly Cluskey—referring to page 201 of the faculty handbook—summarized the difference between Process One, Process Two, and Process Three].

IX. New Business

A. Ratification of Appointments to Standing Committees

The Executive Committee of the University Senate would like to recommend for:

i. Affirmative Action Committee

Margaret Young

Dean Kim

[Motion to accept was made; Alan Galsky seconded. The motion passed]

ii. Honorary Degrees Committee

Wayne Evens

Ron Koperski

[Alan Galsky made the motion to accept; Charles Dannehl seconded. The motion passed].

iii. Retirement Advisory Committee

Shyam Bhandari

Nena Peplow

[Alan Galsky made the motion to accept; Charles Dannehl seconded. The motion passed].

iv. University Resources Committee

Ed Sattler

Oscar Gillespie

[Brian Huggins made the motion to accept; Claire Etaugh seconded. The motion passed].

B. Proposed Handbook language change related to OTEFD

(1) A revision to the Faculty Handbook concerning the budget for and the scope of OTEFD was proposed (a process one change). The paragraph to be altered is on page 53 of the Handbook. The motion was made and seconded. Discussion ensued. In question was the issue of whether a vote on these proposed changes needed to wait until the October meeting of the Senate. Worries were voiced that a delay in passing these revisions would necessitate a delay in the search for a director of OTEFD. Tim Koeltzow read the previous version of the paragraph to be changed. There was talk, again, of the need to move forward. The question was called. The motion passed.

(2) A revision to the Faculty Handbook concerning the scope of OTEFD, from page 194 of the handbook. This is a process three change and, thus, need not be voted on by the senate.

X. Other Business

Report from Student Senator

Eric Swanson, the student representative to the University Senate, introduced himself and welcomed everyone back to campus for the semester. He reported that elections were held and that several posts need to be filled despite having had the first meeting. He reported that students like the new parking deck and were waiting for the opening of the Markin Center with great anticipation. The new lights on campus are also appreciated by the students. Eric Swanson went on to explain that Student Senate is working with AT & T to help boost the company's on campus signal.

Molly Cluskey thanked President Glasser for the reception for the 2008-2009 University Senate members at the very beginning of the semester.

XI. Adjournment

The meeting was adjourned at 4:12 p.m.

Bradley University Senate
First Meeting 2008-2009
September 18, 2008
Attendance Sheet

FACULTY
(please initial)

Andersh, Brad	BA	Goitein, Stephen		Morris, Marty	MM
Arquette, Cecile	CA	Hertich, Alexander	AH	O'Brien, Kevin	KO
Banning, Steve	JBanning	Hindi, Riyadh	MHD	Podlasek, Bob	
Bhandari, Shyan	SB	Huggins, Brian	ADH	Quigg, David	DQ
Brown, George	GB	Johlke, Mark		Risen, Mike	
Brubaker, Cindy	CB	Kelley, Andrew	AK	Rossen, Doug	DR
Cady, Craig	CC	Kelly, Todd		Salamini, Leonardo	
Carlson, Randy	RC	Kerr, Stephen	SK	Schmidt, Roy	
Cluskey, Molly	MC	Koeltzow, Tim	TK	Schopf, James	
Craig, Martha	MC	Krishnamoorthi, K	TK	Spires, Todd	TS
Dannehl, Charles	CD	Kuester, Dietra		Timm, Mat	MT
Davidson, Jeanette		Lozano, Jose	JL	Tippett, Steve	ST
Dolins, Steve	SD	Malinowski, Aleksander	ML	Walker, Bill	WB
Dusenbery, Peter	PD	McGehee, Bill	MB	Williams, John	JB
Ferolo, Jim	FF	Mehta, Paul		Young, Margaret	MY

Bill, Donna DJ - MTG. Dept.

EX-OFFICIO
(please initial)

Anna, Gary	GA	Galsky, Alan	GA
Baer, Dave ROB	R.B.	Glasser, Joanne	GA
Beaty, Kathie	KB	Huberman, Jeffrey	HA
Bolla, Robert		Johnson, Richard	RA
Epstein, Shelley		McAsey, Mike	MA
Etaugh, Claire	CC	Perry, Sandra	SP
Fan, Sam		Roberson, Nicki e	NR
Field, Kurt	KF	Ruch, Chuck	CR
Galik, Barbara	GB	Sattler, Joan	JS

STUDENTS
(please initial)

Swanson, Eric	ES		

To: Molly Cluskey, President of Bradley University Senate

From: Joe Emanuel, Chair, C&R Subcommittee on Curriculum

Date: October 8, 2008

The C&R Committee met on Tuesday, Oct. 7. The following undergraduate course and program changes that were reviewed and approved by the Curriculum subcommittee of C&R were approved.

	Course #	Title	Description	Prerequisites
CHANGE				
Deletion	CE550	Geoenvironmental Engineering		
Current	ME351	Engineering Material Science I – 3 hrs	Atomic and Crystalline structure of solid materials commonly used in engineering applications. Effects of internal structure on physical properties of materials	CHM110, 111, PHY201
Modification Description Prerequisites	ME351		Understanding how atomic and Crystalline structure influences the mechanical properties of metals, polymers, ceramics, composite, and biomedical materials. Thermal processes that influence the underlying structure of solids. Using materials in the engineering design process.	CHM112 or 116, Corequisite: PHY201
Current	NUR200	Fundamentals of Nursing – 3 hrs	Introduction to Nursing. Concepts and theories of individuals, society and health. Nursing process as the basis for promoting wellness within the health care delivery system.	CHM149, (150),or 151, 152
Modification Prerequisites	NUR200			CHM100, 101, 151, 152

Current	NUR203	Fundamentals of Nursing — Practicum 2 hrs	Selected practicum experiences correlated with theoretical content of NUR200 (Fundamentals of Nursing) and applied to individual's adaptive responses	CHM149, 150 or 151, 152
Modification Prerequisites	NUR203			CHM100, 101, 151, 152
Current	NUR303	Research in Nursing – 3 hrs	As a consumer of research, the students evaluates published nursing research and its importance to the profession. The student examines steps of the research process incritiquing literature and writing a comprehensive review of literature. Use of computer in nursing research correlated with the research process.	corequisite of MTH111 or equivalent
Modification Prerequisites	NUR303			prerequisite of MTH111 or current enrollment
Current	NUR316	Adult Health II: Medical Surgical – 4 hrs	Medical-surgical nursing with emphasis on selected physiological systems. Concepts and theories of nursing care of the individual and family are applied to foster the adaptive response.	Majors only. NUR204, 206, 207. Co requisites NUR317,318
Modification Prerequisites	NUR316			Majors only. NUR204, 206, 207, 318 or concurrent enrollment. Corequisite: NUR317
Current	NUR 317	Adult Health II: Medical Surgical – 2 hrs	Selected practicum experience correlated with theoretical content onNUR316 that foster adaptive responses.	Majors only. NUR206, 207, 204. Corequisite: NUR316, NUR318
Modification Prerequisites	NUR 317			Majors only. NUR204, 206, 207, 318 or concurrent enrollment. Corequisite: NUR316
Current	NUR405, NUR406	Cooperative Education in Nursing 0-1 hrs	Theory for nursing care of clients in a variety of health care settings.	2.5 GPA corequisite for 405 NUR401,

				411, 415 corequisite for 406 NUR 402, 412, 416
Modification Prerequisites	NUR405, NUR406			2.8 overall GPA Corequisite for 405 NUR 408, 409, 415 Corequisite for 406 NUR410, 416, 417.
Current	NUR409	Senior Practicum I: 5 hrs	Selected practicum experiences correlated with theoretical content of NUR408 and/or NUR404, that foster adaptive responses.	Majors only. NUR316, 317, 318, BIO205. Corequisites: NUR408 and 404.
Modification Prerequisites	NUR409			Majors only. NUR316, 317, 318, BIO205 – (minimum grade of C). Corequisite: NUR408
Current	NUR410	Adult Health IV: Nursing Care of the Patient with Multi- System Challenges (T) – 3 hrs	Medical-surgical nursing with emphasis on caring for the patient with multi-system challenges. Concepts and theories of nursing care of the individual, family, and community are applied to foster the adaptive responses.	Majors only. NUR408, 409, 303. Corequisites: NUR415, 417, 418.
Modification Prerequisites	NUR410			Majors only. NUR408, 409, 404 or concurrent enrollment Corequisites: NUR 417, 418.
Current	NUR415, NUR416	Cooperative Education in Nursing (Practicum) - 0-2 hrs	In-depth practicum in a variety of health care settings integrated with theory.	Senior standing; majors only; 2.5 GPA Corequisites for NUR415: NUR401, 405, and 411 Corequisites for NUR416: NUR402, 406, 412

Modification Prerequisites	NUR415, NUR416			Senior standing; 2.8 overall GPA Corequisites for NUR415: NUR405, 408, 409 Corequisites for NUR416: NUR406, 410, 417
Current	NUR 417	Senior Practicum II: 5 hrs	Selected practicum experiences correlated with theoretical content of NUR404,410, 418 that foster adaptive responses.	Majors only. NUR408, 409 Corequisite: NUR 410, 418
Modification Prerequisites				Majors only; NUR 408, 409, 404 or concurrent enrollment. Corequisites; NUR 410, 418.
New Course Addition	ETE495	Student Teaching in Early Childhood and K-8 – 13 hours	Internship in Peoria-area classrooms, schools, and learning centers for a full semester. Instructional planning and implementation in preprimary, primary, and elementary school learning environments. Teacher responsibilities: long-term planning, implementing an integrated curriculum, facilitating small and large-group learning, developing an informal assessment plan. Self-reflection with focus on professional growth and completion of a professional teaching portfolio. Weekly seminar. Pass/Fail. Open only to students who have adequate preparation in subject matter, demonstrated proficiency with regard to program and course objectives, completed prerequisites, and evidenced fitness for entering the teaching profession.	Advancement to candidacy in the department: ETE260, 280, 108, 197, 198, 199, 201, 300, 304, 306, 325, 330, 335, 336, 339, 342, 343, 353, 443; Grade point average of 2.50 overall, 2.50 in teaching field, and 2.50 in professional education courses; current certification of freedom from TB; approval of Teacher Education Department. Corequisite: ETE467
EHS Program Modification	Elementary Education	Students may take BIO280 – Independent Research only once	Biology Department can only support this level of enrollment	

LAS Program Modification	Social Work	Add Soc302-Sociology of Diversity- to the list of courses that meet the department's diversity requirement for majors		
<u>CFA</u> Program Addition		Communication Sports Communication Concentration Specifics listed at end of table		
	Course #	Title	Description	Prerequisites
New Course Addition	COM 160	Sports, Media and Society 3 hours	The social, political, economic, historical and ethical significance of the intersection of sports, media and society.	COM 101
New Course Addition	COM 260	Sports Writing and Announcing 3 hours	The skills of writing and announcing for the electronic media	COM101, ENG101,MM113; and COM201 or COM 202
New Course Addition	COM 265	International Issues and Ethics in Sports – 3 hours	A global perspective on sports including a discussion of nationalism and global advertising	COM101 and COM160
New Course Addition	COM 360	Digital Journalism 3 hours	This course is designed to help students effectively use cutting edge interactive technologies employed in online journalism and to understand their applications	COM101, EENG101, MM113; and COM201 or COM202
New Course Addition	COM 460	Sports Promotion and Publicity 3 hours	Basic principles involved in communicating activities of professional and non-professional sports organizations and institutions to their target audiences. Examination of sports-related corporate social responsibility and community relations initiatives in local, national and international settings.	COM101, ENG101, MM113, COM160, COM360; and COM201 or COM202.

<p>CFA New Program-Concentration</p> <p>Sports Communication 42 hours</p>	<p><u>Core Courses – 9 hours</u> COM 101 – Survey of Communications – 3 hrs COM 300 – Communication Theory – 3 hrs COM 417 – Issues and Perspectives in Communication – 3 hrs</p>	<p><u>Required Courses – 24 hours</u> MM 113 – Introduction to Multimedia – 3 hrs COM 160 - Sports, Media and Society – 3 hours COM 201 – Journalistic Writing – 3 hrs COM 260 – Sports Writing and Announcing – 3 hours COM 265 – International Issues and Ethics in Sports – 3 hours COM 360 – Digital Journalism – 3 hours COM 400 Communication Research – 3 hrs COM 460 - Sports Promotion and Publicity – 3 hours</p>	<p><u>Required Non-Communication Course (3 hours)</u> ATG 157 – Accounting Principles-Financial or Math 11 – Elementary Statistics – 3 hrs</p> <p><u>Required Electives – (6 hours)</u> 2 courses of which one must be at 300 or above level (all existing courses) COM 215, COM 219, COM 220, COM 292, COM 310, COM 335, COM 415, COM 320, COM 430, COM 491, COM 494, COM 495</p>

To: Molly Cluskey, University Senate President

From: Kurt Field, Interim Dean of the Graduate School

Date: October 9, 2008

Re: Senate Committee on Curriculum and Regulations Meeting of October 7, 2008

The Curriculum and Regulations Committee has reviewed and approved the following course and program additions, deletions, and modifications pertaining to the Graduate School.

1. Program Modifications

Computer Information Systems & Computer Information Systems/Computer Systems

Associated documents are available for review on the Graduate School website at:

<http://www.bradley.edu/academics/grad/facstaff/>

2. Course Additions

FIN 628 – Socially Responsible Financial Policy

Explores through research and discussion the implications of Corporate Social Responsibility (CSR) for the traditional value/profit motive of corporate financial policy. Readings and case studies will be used to explore CSR topics such as environmental issues; shareholder activism; fair trade; philanthropy; fair compensation; socially responsible investing, and other related topics.

Prerequisite: None

Rationale: Course has been successful when offered to MBA students. Course raises student awareness of corporate responsibility issues in a capitalistic economy.

CE 650 – Site Remediation

Preliminary studies and engineering design of various treatment technologies used for remediation of contaminated soil and groundwater. Brownfield remediation. Soil composition and behavior, development and movement of groundwater. Soil sampling and monitoring of contaminants in groundwater. Drilling techniques based on soil type. Processes affecting the distribution of inorganic and organic pollutants in the environment, exchange among soil, water, sediment, and biota.

Prerequisites: CE 380 and CE 360

Rationale: Course is an upgrade and modification of CE 550, which is being deleted. CE 650 will focus more exclusively on site remediation than CE 550.

CS 612 – Automata, Computation and Complexity

Theory of formal languages and computability. Automata, Turing machines, grammars, Context free and context sensitive languages; parsing, Recursion theory; limits of effective computability, P and NP class of problems, NP-complete problems. Non Turing computable problems, reducibility, complexity.

Prerequisite: CS 502 equivalent.

Rationale: Replacing CS 682. Description changed to confirm with CC2001 curriculum guidelines. Prerequisite changed to reflect changes in course numbering.

CS 635 – Data Communications and Networks

Fundamentals of data communication, computer network architectures and protocols, wireless networks, network programming, and network security. Emphasis on OSI, TCP/IP, ATM, and IEEE 802 LAN layered architectures and TCP/IP network programming.

Prerequisite: CS 330 or equivalent

Rationale: Replacing CS 643. Description changed to confirm with CC2001 curriculum guidelines. Prerequisite changed to reflect changes in course numbering.

CS 670 – Database Management Systems

Relational database design, including entity relationship modeling and normalization. Structured query language (SQL) for creating and querying databases. Other topics include the theory of relational databases, including relational algebra, various loading and reporting utilities, and the implementation of database management systems, e.g., how query optimization works.

Prerequisite: CS 210 or CIS 607 or equivalent

Rationale: Replacing CS 670. Description changed to confirm with CC2001 curriculum guidelines. Prerequisite changed to reflect changes in course numbering.

CS 690 – Advanced Topics on Software Engineering

Special software engineering research and development projects under staff supervision. Emphasis on a specific topic and emerging technologies in the software engineering area.

Prerequisite: CS 590 or CS 591

Rationale: Replacing CS 616. Description changed to confirm with CC2001 curriculum guidelines. Prerequisite changed to reflect changes in course numbering.

3. Course Deletions**CE 550 – Geoenvironmental Engineering**

Soil composition and behavior. Development and movement of groundwater. Soil sampling and monitoring of contaminants in groundwater. Drilling techniques based on soil type. Land disposal of wastes. Solidification of wastes and design of landfills. Processes affecting the distribution of inorganic and organic pollutants in the environment. Exchange among soil, water, sediment, and biota. Remediation of contaminated soil and groundwater at existing sites.

Prerequisite: CE 308, CE 360.

Rationale: Replaced by CE 650.

CIS 606 – Software Systems Design

Planning, writing debugging, and documenting large software systems.

Prerequisite: Grade of C or better in CS 121 or equivalent..

Rationale: Replaced by CS 591

CIS 608 – System Specification and Development

Techniques and tools of systems specifications and development. Case studies; problems.

Prerequisite: Grade of C or better in CS 121 or equivalent..

Rationale: Replaced by CS 592

CS 682 – Theory of Computation

Theory of formal languages and computability. Automata, Turing machines, grammars. Context free and context sensitive languages; parsing. Recursion theory; limits of effective computability. Unsolvability, reducibility, complexity.

Prerequisite: Grade of C or better in CS 302

Rationale: Replaced by CS 612

CS 615 – Software Engineering I

Software engineering; technical management, project management, estimation, and control; economics, environment; standards; products and their phases.

Prerequisites: Grade of C or better in CS 302 or CS 310.

Rationale: Course is being replaced by CS 590.

CS 643 Data Communications and Distributed Computing

Introduction to communication technologies. Emphasis on application to computer networks, information and coding theory, design considerations, and architecture, including topologies, implementation techniques, and standard distributed computing architectures.

Prerequisite: MTH120,325; CS 519

Rationale: Replaced by CS 635

CS 609 – Database Management Systems

Relational, hierarchical, and network database models. Conceptual and physical schema. Data definition and data manipulation languages. Normal forms and database design. Database administration, security, integrity, and backup recovery. Query optimization. Latest developments in databases.

Prerequisites: Grade of C or better in CS 302 or CIS 607.

Rationale: Course is being replaced by CS 670.

CS 616 – Software Engineering II

Background and overview of software production: requirements for engineering and analysis; software specifications, design, coding, qualification, manufacture, support, and standards. Emphasis on a specific topic in software engineering.

Prerequisites: Grade of C or better in CS 302 or CS 310.

Rationale: Course is being replaced by CS 690.

4. Course Modifications

CIS 607 – File Organization and Management

File organizations and access methods. Sort/merge operations; hashing schemes for storage and retrieval. Projects involve data validation; creation and updating of files; simulation and/or implementation of direct and indexed files.

Prerequisite: CS 121 or equivalent

Rationale: Prerequisite changed to reflect changes in undergraduate course numbering.