



Academic Notes

August 16, 2010

AN 2009-2010

ACADEMIC NOTES PUBLICATION SCHEDULE FOR FALL 2010

Below is the circulation schedule for the electronic copy of *Academic Notes* through December 20, 2010. All submissions for inclusion in *Academic Notes* are due in the Office of Academic Affairs no later than 10:00 a.m. on the Wednesday prior to the distribution of *Academic Notes* on the following Monday. Submissions must be in hard copy along with an e-mail, disk, or CD with the same information. The electronic version must be formatted either in Word with pages with signatures scanned and inserted as a picture OR PDF saved as text and image. (Do NOT send PDF just saved as an image.) Information submitted to *Academic Notes* that is not accompanied by an electronic version or that is incomplete or unusable will be returned to the appropriate office.

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During the summer months, *Academic Notes* is published every other week.

ACADEMIC NOTES PUBLICATION SCHEDULE FOR FALL 2010

<u>Deadline for Items</u>	<u>Issue Date</u>
August 25	August 30
September 1	September 7
September 8	September 13
September 15	September 20
September 22	September 27
September 29	October 4
October 6	October 11
October 13	October 18
October 20	October 25
October 27	November 1
November 3	November 8
November 10	November 15
November 17	November 22
November 24	November 29
December 1	December 6
December 8	December 13
December 15	December 20

ACALOG NOTE

The format for curriculum proposals has changed to correspond with the structure of Acalog, the new version of the electronic catalogs. Some proposals will be published under the old structure and some under the new structure during this transition period.

Improved Electronic Catalog

The new electronic version of the undergraduate catalog is posted at <http://www.indstate.edu/academics/catalogs.htm> Some advantages of the new format are:

- It is easily searchable and searchable from the internet
- It is easier for students and advisors to find and choose the courses students need
- Students create a personal portfolio of courses in which they are interested
- Links to information such as department web sites, advising information, and video clips can easily be added
- Every page can easily be printed.

If you have questions, please contact Academic Affairs, extension 3662.

CURRICULUM

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UNDERGRADUATE PROPOSALS

COURSE REVISIONS

COLLEGE OF ARTS AND SCIENCES: Biology

BIO 380 - Genetics

3 credits

The study of hereditary mechanisms, including classical, biochemical, and population concepts using appropriate examples.

Prerequisites: 102; MATH 111 or equivalent; concurrent enrollment in 380L.

When Offered: fall.

Change prerequisites to:

BIO 380 - Genetics

3 credits

The study of hereditary mechanisms, including classical, biochemical, and population concepts using appropriate examples.

Prerequisites: BIO 102; MATH 099 or appropriate placement examination (MAPLE T.A.) score; concurrent enrollment in 380L.

When Offered: fall.

A-F Grading

Preferred effective term: Spring 2011

BIO 485 - Introduction to Biometry

3 credits

Principles of probability and statistics applied to biological data. Binomial, chi-square, and normal distributions, including analysis of variance, regression, and correlation.

Prerequisites: MATH 111 or equivalent or consent of instructor.

Note: open to graduate students. Graduate students are required to do additional work of a research nature.

When Offered: fall.

Change prerequisites to:

BIO 485 - Introduction to Biometry

3 credits

Principles of probability and statistics applied to biological data. Binomial, chi-square, and normal distributions, including analysis of variance, regression, and correlation.

Prerequisites: MATH 115 or a calculus course.

Note: open to graduate students. Graduate students are required to do additional work of a research nature.

When Offered: fall.

A-F Grading

Preferred effective term: Spring 2011

COLLEGE OF ARTS AND SCIENCES: Chemistry and Physics

CHEM 105 - General Chemistry I

3 credits

Link: (This course is part of the “Transfer Indiana” [TransferIN] initiative. For additional information, link to www.transferin.net/ctl.)

Topics include atomic structure, physical properties of gases, nomenclature, molecular bonding and geometry, mass relationships in chemical equations, and thermochemistry. Because the course assumes adequate knowledge of algebra, the following is strongly recommended: prior completion or current enrollment in Mathematics 111 or higher, or a mathematics SAT score of 510 or higher, or an ACT score of at least 21.

Co-requisite: concurrent enrollment in 105L, or consent of instructor or chairperson.

Note: unless otherwise stated, all chemistry courses require laboratory work.

Change description to:

CHEM 105 - General Chemistry I

3 credits

Link: (This course is part of the “Transfer Indiana” [TransferIN] initiative. For additional information, link to www.transferin.net/ctl.)

Topics include atomic structure, physical properties of gases, nomenclature, molecular bonding and geometry, mass relationships in chemical equations, and thermochemistry. Because the course assumes adequate knowledge of algebra, the following is strongly recommended: prior completion or current enrollment in Mathematics 115 or higher, or a mathematics SAT score of 510 or higher, or an ACT score of at least 21.

Co-requisite: concurrent enrollment in 105L, or consent of instructor or chairperson.

Note: unless otherwise stated, all chemistry courses require laboratory work.

A-F Grading

Preferred effective term: Spring 2011

COLLEGE OF ARTS AND SCIENCES: Earth and Environmental Systems

ENVI 454 - Introduction to Hydrology

3 credits

Study of surface water systems, hydrologic budgets, and hydro-climatology. Emphasis is on techniques and methods used in the collection of hydrologic data. A two-hour lecture and a two-hour laboratory weekly.

Prerequisites: ENVI 170; MATH 111 and 112 or 115.

Note: field trip and term paper required. Open to graduate students. Graduate students are required to do additional work of a research nature.

Change prerequisites to:

ENVI 454 - Introduction to Hydrology

3 credits

Study of surface water systems, hydrologic budgets, and hydro-climatology. Emphasis is on techniques and methods used in the collection of hydrologic data. A two-hour lecture and a two-hour laboratory weekly.

Prerequisites: ENVI 170 and MATH 115 or a MAPLE score of 21 to 30.

Note: field trip and term paper required. Open to graduate students. Graduate students are required to do additional work of a research nature.

A-F Grading

Preferred effective term: Spring 2011

COLLEGE OF ARTS AND SCIENCES: Mathematics and Computer Science

CS 421 - Formal Methods

3 credits

Elements of formal logic; various approaches to automation including resolution; restrictions and search methods; inductive theorem-proving; Knuth-Bendix completion; Boyer-Moore theorem-prover; applications.

Prerequisites: MATH 320.

Note: open to graduate students. Graduate students are required to do additional work of a research nature.

Change prerequisites to:

CS 421 - Formal Methods

3 credits

Elements of formal logic; various approaches to automation including resolution; restrictions and search methods; inductive theorem-proving; Knuth-Bendix completion; Boyer-Moore theorem-prover; applications.

Prerequisites: CS 303 or consent of instructor.

Note: open to graduate students. Graduate students are required to do additional work of a research nature.

A-F Grading

Preferred effective term: Spring 2011

CS 451 - Computer Architecture

3 credits

Data representation, number systems and codes, gates and logic, combinational logic, sequential circuits, flip-flops, memory and storage, computer organization, microprogramming, architectures of supercomputers and micros.

Prerequisites: CS 258 and 365.

Note: open to graduate students. Graduate students are required to do additional work of a research nature.

Change prerequisites to:

CS 451 - Computer Architecture

3 credits

Data representation, number systems and codes, gates and logic, combinational logic, sequential circuits, flip-flops, memory and storage, computer organization, microprogramming, architectures of supercomputers and micros.

Prerequisites: CS 303 or consent of instructor.

Note: open to graduate students. Graduate students are required to do additional work of a research nature.

A-F Grading

Preferred effective term: Spring 2011

CS 452 - Software Engineering

3 credits

The software life cycle: specification, object-oriented programming and design, program

development, validation, testing, debugging, documentation, maintenance, revision control, CASE tools.

Prerequisites: CS 258.

Note: open to graduate students. Graduate students are required to do additional work of a research nature.

Change description and prerequisites to:

CS 452 - Software Engineering

3 credits

This course studies the software life cycle: specification, object-oriented programming and design, program development, validation, testing, debugging, documentation, maintenance, revision control, CASE tools.

Prerequisites: CS 202 or consent of instructor.

Note: open to graduate students. Graduate students are required to do additional work of a research nature.

A-F Grading

Preferred effective term: Spring 2011

CS 456 - Systems Programming

3 credits

An introduction to both program translation and operating systems. There will be a survey of topics such as: top-down and bottom-up parsing, scanning, code generation, symbol table management, linkers and loaders, batch processing systems, interacting processes, multiprogramming systems, and memory management.

Prerequisites: CS 258 and 365.

Note: open to graduate students. Graduate students are required to do additional work of a research nature.

Change prerequisites to:

CS 456 - Systems Programming

3 credits

An introduction to both program translation and operating systems. There will be a survey of topics such as: top-down and bottom-up parsing, scanning, code generation, symbol table management, linkers and loaders, batch processing systems, interacting processes, multiprogramming systems, and memory management.

Prerequisites: CS 202 or consent of instructor.

Note: open to graduate students. Graduate students are required to do additional work of a research nature.

A-F Grading

Preferred effective term: Spring 2011

CS 457 - Data Base Processing

3 credits

Data independence, relational model, relational algebra and calculus, query languages and SQL, conceptual modeling, database design, data dependencies and normalization, access methods, tables, queries, forms, macros and reports, database administration, introduction to transaction processing, concurrent transactions, and recovery. Case studies of commercial database systems, such as Oracle and Microsoft SQL Server.

Note: open to graduate students. Graduate students are required to do additional work of a research nature.

Add prerequisites to:

CS 457 - Data Base Processing

3 credits

Data independence, relational model, relational algebra and calculus, query languages and SQL, conceptual modeling, database design, data dependencies and normalization, access methods, tables, queries, forms, macros and reports, database administration, introduction to transaction processing, concurrent transactions, and recovery. Case studies of commercial database systems, such as Oracle and Microsoft SQL Server.

Prerequisites: CS 202 or consent of instructor.

Note: open to graduate students. Graduate students are required to do additional work of a research nature.

A-F Grading

Preferred effective term: Spring 2011

CS 458 - Algorithms

3 credits

Among the topics covered will be: review of basic data structures and their implementations; graphs, both directed and undirected; analysis of algorithms; sorting, searching, and merging, both internal and external methods; memory management algorithms; mathematical algorithms; and advanced topics as time allows, such as NP-complete problems.

Prerequisites: CS 258 and MATH 320.

Note: open to graduate students. Graduate students are required to do additional work of a research nature.

Change prerequisites to:

CS 458 - Algorithms

3 credits

Among the topics covered will be: review of basic data structures and their implementations; graphs, both directed and undirected; analysis of algorithms; sorting, searching, and merging, both internal and external methods; memory management algorithms; mathematical algorithms; and advanced topics as time allows, such as NP-complete problems.

Prerequisites: CS 303 or consent of instructor.

Note: open to graduate students. Graduate students are required to do additional work of a research nature.

A-F Grading

Preferred effective term: Spring 2011

CS 469 - Unix/Linux Administration and Networking

3 credits

Includes installation and configuration of Unix/Linux operating system software; set-up of hardware and software for Unix/Linux networking including TCP/IP, FTP, Telnet, DNS, DHCP, and Apache; Unix/Linux administration tasks including directories, users, tuning, backup, security, and networking.

Prerequisites: CS 367 or Management Information Systems 430 or Electronics and Computer Technology 353.

Note: open to graduate students. Graduate students are required to do additional work of a research nature.

Change prerequisites to:

CS 469 - Unix/Linux Administration and Networking

3 credits

Includes installation and configuration of Unix/Linux operating system software; set-up of hardware and software for Unix/Linux networking including TCP/IP, FTP, Telnet, DNS, DHCP, and Apache; Unix/Linux administration tasks including directories, users, tuning, backup, security, and networking.

Prerequisites: CS 202 or consent of instructor.

Note: open to graduate students. Graduate students are required to do additional work of a research nature.

A-F Grading

Preferred effective term: Spring 2011

CS 470 - Programming Languages

3 credits

The purpose of the course is to develop an understanding of the organization of programming languages and introduce the formal study of programming language specification and analysis. The topics covered will usually include: language definition structure, data types and structures, control structures and data flow, run-time consideration, interpretative languages, lexical analysis, and parsing.

Prerequisites: CS 258.

Note: open to graduate students. Graduate students are required to do additional work of a research nature.

Change prerequisites to:

CS 470 - Programming Languages

3 credits

The purpose of the course is to develop an understanding of the organization of programming languages and introduce the formal study of programming language specification and analysis. The topics covered will usually include: language definition structure, data types and structures, control structures and data flow, run-time consideration, interpretative languages, lexical analysis, and parsing.

Prerequisites: CS 202 or consent of instructor.

Note: open to graduate students. Graduate students are required to do additional work of a research nature.

A-F Grading

Preferred effective term: Spring 2011

CS 471 - Operating Systems

3 credits

Major topics will include system structure, memory management, and process management. Hands-on experience using the department's minicomputer facilities will be an important part of the course.

Prerequisites: CS 258 and 365.

Note: open to graduate students. Graduate students are required to do additional work of a research nature.

Change prerequisites to:

CS 471 - Operating Systems

3 credits

Major topics will include system structure, memory management, and process management.

Hands-on experience using the department's minicomputer facilities will be an important part of the course.

Prerequisites: CS 202 or consent of instructor.

Note: open to graduate students. Graduate students are required to do additional work of a research nature.

A-F Grading

Preferred effective term: Spring 2011

CS 479 - Web Programming II

3 credits

Advanced programming for the World Wide Web and the Internet. This course includes three approaches: the older CGI/PERL, Microsoft's Active Server Pages (ASP), and Sun's Java Server Pages (JSP). The course also includes the setup and configuration of World Wide Web servers including Apache and Microsoft's IIS.

Prerequisites: CS 170 and 320.

Note: open to graduate students. Graduate students are required to do additional work of a research nature.

Change prerequisites to:

CS 479 - Web Programming II

3 credits

Advanced programming for the World Wide Web and the Internet. This course includes three approaches: the older CGI/PERL, Microsoft's Active Server Pages (ASP), and Sun's Java Server Pages (JSP). The course also includes the setup and configuration of World Wide Web servers including Apache and Microsoft's IIS.

Prerequisites: CS 170 and 202 or consent of instructor.

Note: open to graduate students. Graduate students are required to do additional work of a research nature.

A-F Grading

Preferred effective term: Spring 2011

COURSE REVISIONS **FOUNDATIONAL STUDIES CREDIT**

COLLEGE OF ARTS AND SCIENCES: Chemistry and Physics

PHYS 105 - General Physics I

3 credits

Link: (This course is part of the "Transfer Indiana" [TransferIN] initiative. For additional information, link to www.transferin.net/ctl.)

An algebra-based introduction to physics with applications to other scientific disciplines. Topics include vectors, Newton's laws of motion in one and two dimensions, work and energy, momentum and collisions, and wave motion. This course requires proficiency in intermediate algebra; prior completion of Mathematics 111 or higher is strongly recommended.

Co-requisites: concurrent enrollment in PHYS 105L.

General Education Credit: [GE 2000: Scientific and Mathematical Studies-Elective]

Change description and remove General Education Credit to:

PHYS 105 - General Physics I

3 credits

Link: (This course is part of the “Transfer Indiana” [TransferIN] initiative. For additional information, link to www.transferin.net/ctl.)

An algebra-based introduction to physics with applications to other scientific disciplines. Topics include vectors, Newton’s laws of motion in one and two dimensions, work and energy, momentum and collisions, and wave motion. This course requires proficiency in intermediate algebra; prior completion of Mathematics 115 or higher is strongly recommended.

Co-requisites: concurrent enrollment in PHYS 105L.

A-F Grading

Preferred effective term: Spring 2011

COLLEGE OF ARTS AND SCIENCES: Mathematics and Computer Science

MATH 115 - College Algebra and Trigonometry

3 credits

Polynomial equations, systems of linear equations, translations, reflections, symmetry, functions, graphs, lines and conic sections, mathematical induction, and trigonometric functions.

Prerequisites: appropriate placement examination (MAPLE T.A.) score or MATH 111. Students without an appropriate trigonometry background are advised to take MATH 112.

Note: does not count toward the mathematics major or minor.

Foundational Studies Credit: [FS 2010: Quantitative Literacy or Mathematics]

Change prerequisites to:

MATH 115 - College Algebra and Trigonometry

3 credits

Polynomial equations, systems of linear equations, translations, reflections, symmetry, functions, graphs, lines and conic sections, mathematical induction, and trigonometric functions.

Prerequisites: appropriate placement examination (MAPLE T.A.) score or MATH 099. Students without an appropriate trigonometry background are advised to take MATH 112.

Note: does not count toward the mathematics major or minor.

Foundational Studies Credit: [FS 2010: Quantitative Literacy or Mathematics]

A-F Grading

Preferred effective term: Spring 2011

SCOTT COLLEGE OF BUSINESS

BUS 401 - Senior Business Experience

3 credits

The senior business experience is a capstone course in both business and in General Education. While focusing on the theory and practice of strategic management, students integrate the foundation and functional areas of business and synthesize their business education with their liberal studies experience.

Prerequisites: BUS 263, 311, 321, 351, 361, 371, and a minimum of at least 78 credits, including all Basic Studies and seven of nine required Liberal Studies courses.

Note: See the General Education section of the Catalog for a complete description of the capstone requirement.

General Education Credit: [GE2000: Capstone Course (for credit in the major)]

Capstone Course

Change description, General Studies Credit to Foundational Studies Credit, and remove note to:

BUS 401 - Senior Business Experience

3 credits

The senior business experience is a capstone course in both the College of Business and an upper division integrative elective course in Foundational Studies. While focusing on the theory and practice of strategic management, students integrate the foundation and functional areas of business and synthesize their business education with their liberal studies experience.

Prerequisites: BUS 263, 311, 321, 351, 361, 371, and a minimum of at least 78 credits, including all Basic Studies and seven of nine required Liberal Studies courses.

Foundational Studies Credit: [FS 2010: Integrative Upper-Division Elective]

Preferred effective term: Spring 2011

GRADUATE PROPOSALS

COURSE REVISIONS

COLLEGE OF ARTS AND SCIENCES: Biology

BIO 585 - Introduction to Biometry

3 credits

Principles of probability and statistics applied to biological data. Binomial, chi-square, and normal distributions, including analysis of variance, regression, and correlation.

Prerequisites: MATH 111 or equivalent or consent of instructor.

When Offered: fall.

Change prerequisites to:

BIO 585 - Introduction to Biometry

3 credits

Principles of probability and statistics applied to biological data. Binomial, chi-square, and normal distributions, including analysis of variance, regression, and correlation.

Prerequisites: MATH 115 or a calculus course.

When Offered: fall.

A-F Grading

Preferred effective term: Spring 2011

COLLEGE OF ARTS AND SCIENCES: Earth and Environmental Systems

ENVI 554 - Introduction to Hydrology

3 credits

Study of surface water systems, hydrologic budgets, and hydro-climatology. Emphasis is on techniques and methods used in the collection of hydrologic data. A two-hour lecture and a two-hour laboratory weekly.

Prerequisites: ENVI 170; MATH 111 and 112 or 115.

Note: field trip and term paper required.

Change prerequisites to:

ENVI 554 - Introduction to Hydrology

3 credits

Study of surface water systems, hydrologic budgets, and hydro-climatology. Emphasis is on techniques and methods used in the collection of hydrologic data

Prerequisites: ENVI 110 or 170; MATH 115 or a MAPLE score of 21 to 30.

A-F Grading

Preferred effective term: Spring 2011

COLLEGE OF ARTS AND SCIENCES: Mathematics and Computer Science

CS 521 - Formal Methods

3 credits

Elements of formal logic; various approaches to automation including resolution; restrictions and search methods; inductive theorem-proving; Knuth-Bendix completion; Boyer-Moore theorem-prover; applications.

Prerequisites: MATH 320.

Note: open to graduate students. Graduate students are required to do additional work of a research nature.

Change prerequisites to:

CS 521 - Formal Methods

3 credits

Elements of formal logic; various approaches to automation including resolution; restrictions and search methods; inductive theorem-proving; Knuth-Bendix completion; Boyer-Moore theorem-prover; applications.

Prerequisites: CS 303 or consent of instructor.

A-F Grading

Preferred effective term: Spring 2011

CS 551 - Computer Architecture

3 credits

Data representation, number systems and codes, gates and logic, combinational logic, sequential circuits, flip-flops, memory and storage, computer organization, microprogramming, architectures of supercomputers and micros.

Prerequisites: CS 258 and 365.

Change prerequisites to:

CS 551 - Computer Architecture

3 credits

Data representation, number systems and codes, gates and logic, combinational logic, sequential circuits, flip-flops, memory and storage, computer organization, microprogramming, architectures of supercomputers and micros.

Prerequisites: CS 303 or consent of instructor.

A-F Grading

Preferred effective term: Spring 2011

CS 552 - Software Engineering

3 credits

The software life cycle: specification, object-oriented programming and design, program development, validation, testing, debugging, documentation, maintenance, revision control,

CASE tools.

Prerequisites: CS 258.

Change description and prerequisites to:

CS 552 - Software Engineering

3 credits

This course studies the software life cycle: specification, object-oriented programming and design, program development, validation, testing, debugging, documentation, maintenance, revision control, CASE tools.

Prerequisites: CS 202 or consent of instructor.

A-F Grading

Preferred effective term: Spring 2011

CS 556 - Systems Programming

3 credits

An introduction to both program translation and operating systems. There will be a survey of topics such as: top-down and bottom-up parsing, scanning, code generation, symbol table management, linkers and loaders, batch processing systems, interacting processes, multiprogramming systems, and memory management.

Prerequisites: CS 258 and 365.

Change prerequisites to:

CS 556 - Systems Programming

3 credits

An introduction to both program translation and operating systems. There will be a survey of topics such as: top-down and bottom-up parsing, scanning, code generation, symbol table management, linkers and loaders, batch processing systems, interacting processes, multiprogramming systems, and memory management.

Prerequisites: CS 202 or consent of instructor.

A-F Grading

Preferred effective term: Spring 2011

CS 557 - Data Base Processing

3 credits

Data independence, relational model, relational algebra and calculus, query languages and SQL, conceptual modeling, database design, data dependencies and normalization, access methods, tables, queries, forms, macros and reports, database administration, introduction to transaction processing, concurrent transactions, and recovery. Case studies of commercial database systems, such as Oracle and Microsoft SQL Server.

Add prerequisites to:

CS 557 - Data Base Processing

3 credits

Data independence, relational model, relational algebra and calculus, query languages and SQL, conceptual modeling, database design, data dependencies and normalization, access methods, tables, queries, forms, macros and reports, database administration, introduction to transaction processing, concurrent transactions, and recovery. Case studies of commercial database systems, such as Oracle and Microsoft SQL Server.

Prerequisites: CS 202 or consent of instructor.

A-F Grading

Preferred effective term: Spring 2011

CS 558 - Algorithms

3 credits

Among the topics covered will be: review of basic data structures and their implementations; graphs, both directed and undirected; analysis of algorithms; sorting, searching, and merging, both internal and external methods; memory management algorithms; mathematical algorithms; and advanced topics as time allows, such as NP-complete problems.

Prerequisites: CS 258 and MATH 320.

Change prerequisites to:

CS 558 - Algorithms

3 credits

Among the topics covered will be: review of basic data structures and their implementations; graphs, both directed and undirected; analysis of algorithms; sorting, searching, and merging, both internal and external methods; memory management algorithms; mathematical algorithms; and advanced topics as time allows, such as NP-complete problems.

Prerequisites: CS 303 or consent of instructor.

A-F Grading

Preferred effective term: Spring 2011

CS 569 - Unix/Linux Administration and Networking

3 credits

Includes installation and configuration of Unix/Linux operating system software; set-up of hardware and software for Unix/Linux networking including TCP/IP, FTP, Telnet, DNS, DHCP, and Apache; Unix/Linux administration tasks including directories, users, tuning, backup, security, and networking.

Prerequisites: CS 367 or Management Information Systems 430 or Electronics and Computer Technology 353.

Change prerequisites to:

CS 569 - Unix/Linux Administration and Networking

3 credits

Includes installation and configuration of Unix/Linux operating system software; set-up of hardware and software for Unix/Linux networking including TCP/IP, FTP, Telnet, DNS, DHCP, and Apache; Unix/Linux administration tasks including directories, users, tuning, backup, security, and networking.

Prerequisites: CS 202 or consent of instructor.

A-F Grading

Preferred effective term: Spring 2011

CS 570 - Programming Languages

3 credits

The purpose of the course is to develop an understanding of the organization of programming languages and introduce the formal study of programming language specification and analysis. The topics covered will usually include: language definition structure, data types and structures, control structures and data flow, run-time consideration, interpretative languages, lexical analysis, and parsing.

Prerequisites: CS 258.

Change prerequisites to:

CS 570 - Programming Languages

3 credits

The purpose of the course is to develop an understanding of the organization of programming languages and introduce the formal study of programming language specification and analysis. The topics covered will usually include: language definition structure, data types and structures, control structures and data flow, run-time consideration, interpretative languages, lexical analysis, and parsing.

Prerequisites: CS 202 or consent of instructor.

A-F Grading

Preferred effective term: Spring 2011

CS 571 - Operating Systems

3 credits

Major topics will include system structure, memory management, and process management. Hands-on experience using the department's minicomputer facilities will be an important part of the course.

Prerequisites: CS 258 and 365.

Change prerequisites to:

CS 571 - Operating Systems

3 credits

Major topics will include system structure, memory management, and process management. Hands-on experience using the department's minicomputer facilities will be an important part of the course.

Prerequisites: CS 202 or consent of instructor.

A-F Grading

Preferred effective term: Spring 2011

CS 579 - Web Programming II

3 credits

Advanced programming for the World Wide Web and the Internet. This course includes three approaches: the older CGI/PERL, Microsoft's Active Server Pages (ASP), and Sun's Java Server Pages (JSP). The course also includes the setup and configuration of World Wide Web servers including Apache and Microsoft's IIS.

Prerequisites: CS 170 and 320.

Change prerequisites to:

CS 579 - Web Programming II

3 credits

Advanced programming for the World Wide Web and the Internet. This course includes three approaches: the older CGI/PERL, Microsoft's Active Server Pages (ASP), and Sun's Java Server Pages (JSP). The course also includes the setup and configuration of World Wide Web servers including Apache and Microsoft's IIS.

Prerequisites: CS 170 and 202 or consent of instructor.

A-F Grading

Preferred effective term: Spring 2011

UNDERGRADUATE APPROVALS

NEW COURSES

COLLEGE OF NURSING, HEALTH, AND HUMAN SERVICES: Applied Medicine and Rehabilitation

ATTR 457 – Applied Medicine Practicum

3 credits

Students complete structured practical experience rotations in selected community healthcare facilities.

A-F Grading

Preferred effective term: Fall 2010