

# General Curriculum Report #217

UNIVERSITY OF IDAHO - REGISTRAR'S OFFICE

October 29, 2001

## TO: MEMBERS OF THE UNIVERSITY OF IDAHO FACULTY

The items listed below, approved by the University Curriculum Committee, will be considered to have the necessary faculty approvals unless a petition requesting further consideration of specific items is signed by five faculty members and submitted to the chair of the Faculty Council within 14 calendar days after the date of circulation. If no petition is received within 14 days, the entire report will be submitted to the president for approval and transmittal to the regents, if regents action is required. If a petition is received, the items in the report for which further consideration is requested will be referred to the Faculty Council and the remainder of the report will move forward. On items referred to it, the council may: (1) affirm the action and report it to a meeting of the university faculty, (2) amend the action and report it to a meeting of the university faculty, or (3) rescind the action. *Note:* If a petition concerns courses or curricula in the College of L & S or in the College of Agriculture, and is signed by five faculty members of the respective college, those items will be returned to the college concerned for further consideration.

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## ADULT, COUNSELOR, AND TECHNOLOGY EDUCATION

1. Add **CASP 509 Psychometrics** (1 cr). Basic psychometric principles for developing and evaluating instruments of psychological and educational assessment; includes validity, reliability, correlation, scaling, standardization, and test development. [Summer 2002]
2. Change credits, description, and prereqs of: **CASP 510 Individual Appraisal I** (~~3~~ 2 cr). ~~Analysis of statistical, psychometric, sociometric, and clinical principles essential to successful application of informal and standardized assessment in counseling and human services; current issues, such as cultural, gender, and other individual differences. Theoretical background and practical skills needed to administer, score, and interpret individual assessment procedures in counseling and human services. Broad exposure to techniques and instruments of psychological and educational assessment is provided.~~ Prereq: CASP 509 or equivalent and perm. [Summer 2002]
3. Change credits and description of: **CASP 511 Individual Appraisal II** (~~3~~ 2 cr). ~~Application of informal and standardized assessment in various professional settings in counseling and human services; case studies on active clients conducted in accordance with prescribed procedures~~ Overview of a broad range of appraisal/assessment methods: record reviews, diagnostic interviewing, observation, student participation techniques, informal tests and standardized tests; completion of comprehensive assessment on a student in accordance with prescribed procedures. Prereq: CASP 510 and perm. [Summer 2002]
4. Change title, credits, and description of: **CASP 512 Techniques Theories and Applications of Counseling I** (~~3~~ 2 cr). ~~Review of pertinent counseling theories, stages of the developmental helping process, interpersonal skill building, establishing personal approach~~ Overview of the skilled-helper counseling model and the person-centered counseling approach; skill mastery through microskills role-playing activities. Prereq: perm. [Summer 2002]
5. Change title, credits, and description of: **CASP 513 Techniques Theories and Applications of Counseling II** (~~3~~ 2 cr). Overview of prevailing theories of counseling; study of predominant approaches, with emphasis on ~~person-centered~~/existential/gestalt and cognitive/behavioral approaches; didactic and experiential activities to model application of techniques. Prereq: CASP 512. [Summer 2002]
6. Change credits of: **CASP 515 Counseling in the Schools** (~~3~~ 2 cr). [Summer 2002]
7. Change title and credits of: **CASP 516 Counseling in the Schools-II Interventions** (~~3~~ 2 cr). [Summer 2002]
8. Change credits and description of: **CASP 518 Group Counseling Laboratory** (~~2~~ 1 cr). Participation in a personal development group to promote group counseling skills and awareness of the self as an instrument in effective group leadership; participation as group members as well as observing and serving as part of a reflecting team for the group. Graded P/F. ~~Four~~ Two hrs of lab a wk. Prereq: CASP 512 and 513, or CASP 512 and perm. [Summer 2002]
9. Change credits, description, and prereq of: **CASP 519 Social and Cultural Foundations in Counseling** (~~3~~ 2 cr). ~~Studies of societal changes and trends, human roles, societal subgroups, cultural mores and social interaction patterns, and differing lifestyles~~ Introduction to a theory of multicultural counseling, human development and problems within a

cultural context, and current social issues relevant to counselors. Emphasis will be placed on students' own cultural heritage and the implication it has for their work with diverse groups. ~~Prereq: perm.~~ [Summer 2002]

10. Change credits of: **CASP 520 Approaches to Counseling with Families** (3 2 cr). [Summer 2002]
11. Change credits of: **CASP 536 Professional Issues, Ethics, and Law in Counseling and School Psychology** (3 2 cr). [Summer 2002]
12. Add **CASP 541 Counseling in the Community** (3 cr). This course will provide graduate students in Counseling and School Psychology with a conceptual and practical overview of mental health issues and services in community counseling. Crisis intervention, management, and prevention will be addressed. [Summer 2002]
13. Change credits and description of: **CASP 550 Introduction to School Psychology** (3 2 cr). ~~Overview of history, present role, and function; discussion of professional preparation, standards for delivery of services, ethical/legal issues, alternative delivery systems, emergent technologies, and the future of school psychology~~ Introduction to the profession of school psychology: history, present role and function, alternative delivery systems, professional preparation, provision of services, credentialing, and the future of school psychology. [Summer 2002]
14. Change description and prereqs of: **CASP 551 Assessment of Cognitive Functioning** (2 cr). Overview of theories of intelligence, commonly used assessment instruments/procedures, measurement and statistical concepts, test interpretations and reporting practices, assessment of diverse populations, and ethical/legal issues; ~~discussion of emerging trends (e.g., portfolio assessment, curriculum based measures, and adaptive behavior measures).~~ Develop competence in administering, scoring, interpreting, and reporting results of intelligence tests commonly used in school settings. ~~Coreq: CASP 552~~ Prereq: CASP 510 and perm. [Summer 2002]
15. Drop **CASP 552 Lab: Assessment of Cognitive Functioning** (1 cr). [Summer 2002]
16. Change title, description, and prereq of: **CASP 563 Consultation in Counseling and Human Services School Psychology** (2 cr). Constructs and processes that influence human, organizational, and systems development through consultation. Prereq: placement in counseling and school psychology specialist or doctoral programs, or perm; Coreq: CASP ~~564~~ 597. [Summer 2002]
17. Drop **CASP 564 Consultation Lab** (1 cr). [Summer 2002]
18. Change title, credits, description, and prereq of: **CASP 570 Research and Evaluation in Counseling Psychology** (4 2 cr). Review of research and evaluation in counseling psychology; ~~presentation of student and faculty research and review of research~~ application to personal doctoral study. Prereq: graduate course in research methodology. [Summer 2002]
19. Change title, credits, and coreq of: **CASP 571 ~~Counselor Education and Supervision~~ Counseling Psychology Education** (4 2 cr). ~~Counselor education curriculum, procedures, and methods; counselor supervision purposes, procedures, and methods~~ Curriculum, procedures, and best practices in counseling psychology. Coreq: CASP 598. [Summer 2002]
20. Change title of: **CASP 572 Advanced Theories ~~of Individual and Group in~~ Counseling Psychology** (3 cr). [Summer 2002]
21. Add **CASP 573 Counseling Psychology Supervision** (2 cr). Purpose, procedures, and best practices in counseling psychology supervision. Coreq: CASP 598. [Summer 2002]
22. Change title of: **CASP 578 Ethics and Legal Issues in Counseling ~~and Human Services~~ Psychology** (1 cr). [Summer 2002]
23. Add joint-listing and change title and description of: **PTE J415/J515 Instructional Strategies and Learning Styles** (3 cr). Same as ACTE J415/J515 and AdEd J415/J514. Principles, concepts, aims and applications of program and Design and application of teaching strategies for learning domains and learning styles appropriate for adult learners. Additional projects/assignments reqd for grad cr. [Summer 2002]

24. Add **ACTE J415/J515 Instructional Strategies and Learning Styles** (3 cr). See PTE J415/J515. [Summer 2002]
25. Add **AdEd J415/J515 Instructional Strategies and Learning Styles** (3 cr). See PTE J415/J515. [Summer 2002]
26. Add joint-listing and change description of: **AdEd J475/J575 Strategies for Teaching Adults** (3 cr). Design and application of teaching strategies for learning domains and learning styles appropriate for adult learners. Additional projects/assignments reqd for grad cr. [Summer 2002]

#### **AGRICULTURAL AND EXTENSION EDUCATION**

1. Change curricular requirements: **Agricultural Science and Technology (B.S.Ag.Sc.Tech.)** [Summer 2002]  
Ag 200 Seminar (1 cr)  
Computer proficiency/literacy/applications course, or Idaho Technology Certification, or equivalent (3 cr)
2. Change credit and description of: **AgEd 359 Developing 4-H Youth Programs (4 2 cr)**. Planning, development, and leadership principles of 4-H/youth program; role of 4-H/youth agent educator and volunteer leader. Web-based course. [Summer 2002]

#### **AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY**

1. Add **AgEc 489 Understanding and Using Futures and Options Markets** (2 cr). How futures and options markets work, types of futures and options markets, a practical understanding of their role as investment and risk management tools, and individual student management of a simulated futures and options trading account. Prereq: Math 160 or higher and Econ 201, or perm. [Summer 2002]

#### **ANIMAL AND VETERINARY SCIENCE**

1. Add **AVS 221 Growth and Development of Farm and Companion Animals** (3 cr). Course involves general biology of farm and companion animals. Topics include biochemistry, cellular biology, growth biology, physiology, endocrinology, and metabolism related to domestic agricultural and companion species. Prereq: AVS 109 and 209. [Summer 2002]
2. Change curricular requirements: **Agribusiness (B.S.An.Sc.)** [Summer 2002]  
AVS 172, 174, 176, or 178 Species Practicum (1-3 cr)  
AVS 110 Animal Husbandry Laboratory I (1 cr)  
AVS 209 Science of Animal Husbandry (3 cr)  
AVS 210 Animal Husbandry Laboratory II (1 cr)  
AVS 221 Growth and Development of Farm and Companion Animals (3 cr)
3. Change curricular requirements: **Animal Science - Production (B.S.An.Sc.)** [Summer 2002]  
AVS 172, 174, 176, or 178 Species Practicum (1-3 cr)  
AVS 110 Animal Husbandry Laboratory I (1 cr)  
AVS 209 Science of Animal Husbandry (3 cr)  
AVS 210 Animal Husbandry Laboratory II (1 cr)  
AVS 221 Growth and Development of Farm and Companion Animals (3 cr)  
Gene 314 General Genetics (3 cr)
4. Change curricular requirements: **Dairy Science (B.S.An.Sc.)** [Summer 2002]  
AVS 110 Animal Husbandry Laboratory I (1 cr)  
AVS 209 Science of Animal Husbandry (3 cr)  
AVS 210 Animal Husbandry Laboratory II (1 cr)  
AVS 221 Growth and Development of Farm and Companion Animals (3 cr)  
Engl 313 Business Writing or Engl 317 Technical Writing (3 cr)

[FST 301 Dairy Products \(3 cr\)](#)  
[Gene 314 General Genetics \(3 cr\)](#)  
[MMBB 300 Survey of Biochemistry \(3 cr\)](#)  
[MMBB 380, 382 Introductory Biochemistry and Lab \(6 cr\)](#)  
[FST Upper division elective as approved by advisor \(3 cr\)](#)

5. Change curricular requirements: **Science/Preveterinary (B.S.An.Sc. or B.S.Vet.Sc.)** [Summer 2002]

[AVS 110 Animal Husbandry Laboratory I \(1 cr\)](#)  
[AVS 209 Science of Animal Husbandry \(3 cr\)](#)  
[AVS 210 Animal Husbandry Laboratory II \(1 cr\)](#)  
[AVS 221 Growth and Development of Farm and Companion Animals \(3 cr\)](#)  
[AVS 172, 174, 176, or 178 Species Practicum \(1-3 cr\)](#)  
[MMBB 300 Survey of Biochemistry \(3 cr\)](#)  
[MMBB 380 Introductory Biochemistry \(4 cr\)](#)

## BIOLOGICAL AND AGRICULTURAL ENGINEERING

1. Drop **ASM 115 Graphical Representation** (3 cr). [Summer 2002]
2. Change curricular requirements: **Agricultural Systems Management (B.S.A.S.M.)** [Summer 2002]  
[ASM 115 Graphical Representation](#) or [ITED 265 Computer Aided Drafting/Design \(2 cr\)](#)  
[Phys 100 Fundamentals of Physics](#), or [Phys 111 General Physics I](#), or [Phys 211 Engineering Physics I \(4 cr\)](#)  
[Agricultural electives \(3 cr\)](#)  
[Agricultural and Technical Electives \(14 cr\)](#)  
[Technical electives \(11 cr\)](#)

## BUSINESS

1. Change curricular requirements of: **Marketing (B.S.Bus.)** [Summer 2002]:  
Required course work includes the university requirements (see regulation J-3), the college requirements, and:  
[Acct 381 Accounting for Managers and Investors \(3 cr\)](#)  
[Acct 301 Corporate Accounting and Reporting or higher level accounting course \(3 cr\)](#)  
[Bus 323 Promotional Strategy \(3 cr\)](#)  
Bus 324 Buyer Behavior (3 cr)  
Bus 421 Marketing Research and Analysis (3 cr)  
Bus 428 Marketing Management (3 cr)  
One of the following communication courses (3 cr)  
Comm 233 Interpersonal Communication  
Comm 235 Organizational Communication  
Comm 331 Conflict Management  
Comm 332 Communication and the Small Group  
[Two of the following CBE marketing electives \(6 cr\)](#) [Tier 1 Marketing Electives: Three of the following courses:](#)  
[Bus 420 Promotional Strategy](#)  
Bus 422 Sales Force Management  
[Bus 423 Internet Marketing](#)  
[Bus 424 Pricing Strategy and Tactics](#)  
Bus 425 Retail Distribution Management  
Bus ~~326~~ [426](#) Marketing Channels Management Bus 427 Services Marketing  
Bus 482 International Marketing  
[Bus 453 Database Design](#)  
[Bus 456 Quality Management](#)  
[Bus 470 Purchasing and Materials Management](#)  
[Two of the following non-CBE marketing electives \(approved by the student's marketing adviser\)](#) [Tier 2 Business Electives: Two upper division \(300-400 level\) CBE courses, excluding Bus 321.](#) (6 cr)  
[Comm 265 Advertising and Society](#)

[Comm 360 Broadcast Media Advertising](#)  
[Comm 362 Print Media Advertising](#)  
[Comm 364 Advertising Media Planning](#)  
[Geog 200 World Regional Geography \(if not taken to fulfill UI core social science requirement\)](#)  
[Geog 340 Business Location Decisions](#)  
[Geog 360 Population Dynamics and Distribution](#)  
[Geog 385 or LArc 385 GIS Primer](#)  
[Phil 201 Critical Thinking](#)  
[Psyc 316 Industrial/Organizational Psychology](#)  
[Psyc 320 Introduction to Social Psychology](#)  
[Psyc 325 Cognitive Psychology](#)  
[Soe 314 Society and Self](#)  
[Stat 401 Statistical Analysis](#)  
[Stat 422 Sample Survey Methods](#)

In addition to all other requirements, students must take at least 6 9 to 11 credits from outside the CBE in addition to those specifically required.

2. Change number of: **Bus 323 420 Promotional Strategy** (3 cr). [Summer 2002]
3. Change number of: **Bus 326 426 Marketing Channels Management** (3 cr). [Summer 2002]
4. Add **BUS 423 Internet Marketing** (3). Explores how the internet is transforming the marketing mix activities in customer interactions through value-based web models. Topics include web-based business models for major industries, web technologies for personalization and customization, web communication strategies, inter distribution channels, auction pricing strategies, customer relationship management, and computer security and privacy issues. May require evening exams. Prereq: Bus 321; OR prereq or coreq: Bus 343. [Summer 2002]
5. Change prereqs of: **Bus 424 Pricing Strategy and Tactics** (3 cr). Formulation of pricing strategies and tactics for new and existing products and services; survey of pricing dynamics; competitor response to pricing strategies at the firm and product level; assessment of buyer price sensitivity. Prereq: Bus 321 or 345, and Econ 202 or 272. [Summer 2002]
6. Change prereqs of: **Bus 428 Marketing Management** (3 cr). Discussion of major marketing management functions, including market and environmental analysis, as well as marketing planning, strategy, implementation, and control concepts; special emphasis on application of such concepts by developing a marketing plan that identifies market opportunities and proposes relevant marketing programs for a given case study. May involve evening exams. Prereq: Bus 323, 324, 421, and one Tier 1 marketing elective. [Summer 2002]

## CIVIL ENGINEERING

1. Add **CE 311 Computer Aided Site Engineering Design** (3 cr). Design of site engineering projects using land development software to analyze engineering problems and create design drawings. Demonstration of computer aided drafting and design (CADD) methods. Three hours lecture per week. Prereq: CE 211. [Summer 2002]
2. Change credits of: **CE 411 Engineering Fundamentals** (0 1 cr). [Summer 2002]
3. Remove joint-listing, and change title, description, and prereqs of:  
**CE ~~ID&WS-J475~~/ID&WS-J575 Pavement Design and Evaluation** (3 cr). WSU C E 473. Pavement design processes; stress-strain analysis in multi-layer elastic system; materials selection and characterization methods; design of flexible pavements; design of rigid concrete pavements; AASHTO design guide; traffic loads, design methods for flexible and rigid pavements; performance evaluation of existing pavements; condition survey and ratings; distress evaluation; introduction to pavement maintenance and rehabilitation techniques; computer applications. Additional 1-hr meeting and additional projects/assignments reqd for grad cr. Prereq: CE 357; Engl 317 or equiv or perm. [Summer 2002]

**CE ID&WS575 Advanced Pavement Design and Evaluation Analysis** (3 cr). See CE J475/J575. WSU C E 572. Design of new and rehabilitated asphalt and Portland Cement concrete pavements, mechanistic-empirical design procedures, performance models, deflection-based structural analysis, remaining life analysis and overlay design, environmental effect, long-term pavement performance (LTPP), and introduction to research topics in pavement engineering. Prereq: CE 475 or equiv or perm. [Summer 2002]

## COLLEGE OF EDUCATION

1. Add **ED 580 Foundations of Educational Research** (3 Cr). Examines various and diverse philosophical/theoretical frameworks, methodologies, strategies/techniques, and design. Explores three paradigms: Positivism/Post positivism, Interpretive/Constructivist and Action/Emancipatory with an emphasis in conducting research in multicultural/diverse settings. [Summer 2002]
2. Add **ED 581 Introduction to Quantitative Analysis in Education** (3 cr). An introduction to quantitative research methods in education and the social sciences. The overall goal of the course is to prepare students to understand the process of scientific inquiry, fundamental statistical concepts and procedures of data analysis. The contents will include research design, measurement, and data analysis procedures commonly used in educational research. [Summer 2002]
3. Change title and description of: **ED 582 Introduction to Quantitative Research Methods** (3 cr). Overview of research techniques, emphasizing including experimental, quasi-experimental, descriptive, analytical, single subject, and qualitative research; designs. sSpecial emphasis on reading and understanding, interpreting and critically evaluating research articles; basic principles in planning, analyzing, and writing quantitative research studies. Prereq: graduate standing. [Summer 2002]
4. Add **ED 584 Intermediate Quantitative Analysis in Education** (3 cr). An in-depth analysis of quantitative research methods in social and behavioral sciences. The overall goal of the course is to prepare students to apply quantitative research methodology in education. Topics include understanding applied experimental, quasi-experimental and behavioral designs, survey design, measurement and instrumentation, sampling, item analysis, reliability analysis, and validity assessment. Prereq: ED 581 and ED 582. [Summer 2002]
5. Drop **ED 585 Computer Systems for Educational Research** (3 cr). [Summer 2002]
6. Change title and prereqs of: **ED 586 Advanced Planning and Design of Quantitative Educational Research** (3 cr). Planning, analyzing, writing, and evaluating research studies appropriate for the dissertation; formulation of conceptual framework relative to analytical process; research designs and control of variables, and interpretation of data; preparation of research presentations and writing for publication. Prereq: Ed 581 and Ed 580 or ED 582 ED 585, Stat 401, or equiv or Ed 583 or Ed 588 or perm. [Summer 2002]
7. Change title, description, and prereqs of: **ED 587 Seminar in Advanced Quantitative Research Methods Analysis in Education** (3 cr). Understanding of design, analysis, and interpretation of educational research through review and critique of specific types of research studies; major focus on presentation of individual projects on the use of specific research design and analysis techniques Advanced analysis of quantitative research methods in education and social sciences. The goal of the course is to expose students to multivariate statistics and quantitative research approaches. Topics include multiple correlation/regression, discriminant analysis, exploratory and confirmatory factor analysis, multivariate analysis of variance (MANOVA), multivariate analysis of covariance (MANCOVA), canonical correlation analysis, cluster analysis, log linear model, path analysis and structural equation modeling. Prereq: ED 582, 585, 584 and 586, and a graduate statistics course or perm. [Summer 2002]

## ELECTRICAL ENGINEERING

1. Add **EE 522 Induction Machines** (3 cr). Winding theory, reference frame theory, induction machine models, complex vector methods, small signal analysis, induction machine capability, simulation, introduction to variable speed drives. Prereq: EE 422, EE 350, or perm. [Summer 2002]

2. Change description and prereqs of: **EE J413/J513 Communication Circuits** (3 cr). ~~Noise calculations and consideration in communication circuits, Impedance transforms and matching networks, and impedance transformations,~~ small-signal ~~HF~~ **high frequency** amplifiers, ~~distortion in amplifiers, noise calculations and considerations,~~ sinewave oscillators, mixers and frequency ~~changers~~ **translators**, ~~amplitude modulators and detectors, frequency modulators and discriminators, "linear" power amplifiers, tuned phase-locked loops, and~~ power amplifiers. Additional projects/assignments reqd for grad cr. Prereq: EE 318 ~~and access to and familiarity with "SPICE" simulation program or perm.~~ [Summer 2002]
3. Change title and description of: **EE 416 Applications of Linear Integrated Circuits Applications** (3 cr). Theory and practical implementation of operational amplifiers, ~~comparators,~~ voltage regulators, ~~video amplifiers, and special purpose and selected~~ integrated circuits ~~such as modulators, demodulators, phase locked loops, nonlinear circuits, charge-transfer devices, transducers, and optoelectronic circuits.~~ **Non-ideal characteristics of op-amps and comparators and circuit considerations, stability and compensation, active filters, non-linear circuits.** Prereq: EE 316 or perm. [Summer 2002]
4. Change description, prereqs, and cross-list: **EE 470 Control Systems** (3 cr). ~~Same as ME ID&WS481. Control system design, Analysis and design of feedback control systems using~~ frequency and time domain methods ~~;~~ ~~performance specifications; computer control~~ and computer-aided design ~~tools.~~ Prereq ~~for EE and CoE majors:~~ EE 350. **Prereq for ME majors: ME 313.** [Summer 2002]

## ENGINEERING MANAGEMENT

1. Add **EM 511 Legal Process for Engineers** (3 credits). Designed to acquaint engineering management students with the legal process in general and the role of the judiciary in issues encountered by engineering managers. The course is intended to prepare professionals and managers for legal problems and potential liabilities they may encounter in their work as managers. Course employs the Socratic process to explore business organizations, employment law, contract law and other related topics. [Summer 2002]
2. Drop **EM 581 Project Planning and Monitoring** (3 cr). [Summer 2002]
3. Change the title and description of: **EM 582 Advanced Topics in Project Estimating and Cost Management** (3 cr). ~~Procedures used in developing the project estimate during the planning stages, and updating the estimate throughout the project life-cycle; tools and techniques used in monitoring, managing, and controlling the cost of the project; procedures used in managing the project resources in order to minimize the cost of the project. Two lec and 3 hrs of lab a wk.~~ **Application of project management tools from a management perspective to address the basic nature of all types of projects including public, business, engineering, information systems, etc. Individual and group projects will apply project management tools to case studies and readings on current issues in project management. The course will roughly cover the eight knowledge areas recommended by the Project Management Institute.** Prereq: ~~EM 581 CE 482 or PMP Certification.~~ [Summer 2002]
4. Drop: **EM 583 Managing Project Scope, Schedule, and Risks** (3 cr). [Summer 2002]
5. Add joint-listing, and change title and description of: **EM J484/J584 Bidding and Contract Management Writing Winning Proposals** (3 cr). ~~Elements of the bidding process; procedures used in developing the bid based on the estimate and on the market conditions; review of elements of the contract; using the contract as a guide during the project life-cycle for partial payments, additional payments, and resolution of unusual occurrences. Two lec and 3 hrs of lab a wk.~~ Prereq: CE 484, EM 581 **Practical course to define the process for developing and submitting proposals. Topics include RFP identification, budgeting, scheduling, proposal writing, proposal reviews, and other topics in the proposal writing process. Guest lecturers will discuss their successful experiences. Students will produce one submission-ready proposal for review of technical writing skills. Additional projects reqd for grad cr.** [Summer 2002]
6. Change number, description, and prereqs of: **EM 586 486 Software-Assisted Project Management** (3 cr). Characteristics and features of project management software; procedures and techniques used in identifying **software** features that are necessary for recording project plans and for reporting project progress; process of selecting project management software that is consistent with the organization's procedures and requirements; evaluation of the

modeling capabilities of a system in estimating and scheduling specific case studies of engineering projects. Two lec and 3 hrs of lab a wk. Prereq: [EM 582, 583, 584](#) [CE 482 or PMP Certification](#). [Summer 2002]

## ENGLISH

1. Change the curricular requirements of: **English (B.A.)** [Summer 2002]  
English majors develop skills in writing, textual interpretation, and critical thinking . . .  
To enable students to focus on such interests within a coherent program of study, the English Department offers the choice of ~~three~~ four emphases within the major: literature, creative writing, ~~and~~ preprofessional, and teaching.  
The Department of English offers four graduate degrees . . .

### **Undergraduate Curricular Requirements** **ENGLISH (B.A.)**

Where specific courses are listed with the area requirements, the department may approve equivalencies.  
Required course work includes the university requirements (see regulation J-3), the general L&S requirements for the B.A. degree, and one of the following emphases:

#### **LITERATURE EMPHASIS . . .**

#### **CREATIVE WRITING EMPHASIS . . .**

#### **PREPROFESSIONAL EMPHASIS . . .**

#### **TEACHING EMPHASIS**

[Engl 210 Reading - Writing - Texts \(3 cr\)](#)

[Engl 257 OR 258 Literature of Western Civilization \(3 cr\)](#)

[Engl 341 OR 342 Survey of British Literature \(3 cr\)](#)

[Engl 343-344 Survey of American Literature \(6 cr\)](#)

[Engl 345 Shakespeare \(3 cr\)](#)

[Engl 445 Literature for Adolescents \(3\)](#)

[300- or 400-level literature by minority/ethnic writers \(3\)\\* \(May be taken concurrently with EdTE 485, Internship\)](#)

[400-level literature elective \(3\)\\*](#)

[Engl 441 Intro. to the Study of Language \(3\)](#)

[Engl 201 English Grammar, Key Concepts and Terms \(1\)](#)

[Two linguistics courses chosen from Engl 442, 443, 496 \(6\) \(443 may be taken concurrently with EdTE 485, Internship\)](#)

[One creative writing course from Engl 291, 292, 208, or a course in creative non-fiction \(3\)](#)

[Engl 309 Advanced Prose Writing \(3\)](#)

[Engl 401 Writing Workshop for Teachers \(2\)](#)

[Engl 403 Teaching Writing in Secondary Schools \(3\) \(Must be taken concurrently with EdTE 485, Internship\)](#)

[Elective, any level, selected in consultation with advisor \(3\)](#)

\*At least one of these three courses must be 400-level

#### **TEACHING CERTIFICATION**

L&S English majors wishing secondary teaching certification must complete the appropriate [English and](#) education courses listed in the "Teaching Majors and Minors in the College of Education" section of this catalog. ~~Some of these courses may be included in the student's English major requirements.~~ Students should plan their programs with their English advisors; they should also see College of Education advisors regarding certification requirements.

## FAMILY AND CONSUMER SCIENCES

1. Add **FCS 351 Administration of FCCLA Organizations** (2 cr). This course will prepare FCS education students to become successful advisors of co-curricular FCCLA chapters. Prereq: Admission to teacher education, and BuEd 111, BuEd 415, or Ed 328. [Summer 2002]

2. Change credits, description, and prereq: **FCS 362 Introduction to Clinical Dietetics** (3-4 cr). [Dietetics, role of the dietitian; dietary departments in health care facilities](#) [Nutritional assessment; introduction of nutrition therapies for disease](#). Three lec; and 3 hrs of supervised practice a wk [for 1 cr; only CPD students take 4 credits](#). Prereq: [jr standing in CPD FCS 361](#). [Summer 2002]
3. Change number: **FCS 450 350 Curriculum Development in Family and Consumer Sciences Education** (3 cr). [Summer 2002]
4. Change curricular requirements: **Food and Nutrition (B.S.F.C.S.), Coordinated Program in Dietetics** [Summer 2002]  
Upon acceptance to the professional phase of the CPD during the second semester of the sophomore year, students must maintain a cumulative grade-point average of at least [2.70 2.80](#) to remain in and graduate from the program. Students must also obtain at least a B (80%) in all CPD courses required [for membership in by](#) the American Dietetic Association.
5. Change curricular requirements: **Child, Family, and Consumer Studies (B.S.F.C.S.), Family and Consumer Sciences Education Option** [Summer 2002]  
[BuEd 111 Computer Skills or BuEd 415 Microcomputer Applications \(2-3 cr\)](#)  
[ED 328 Introduction to Educational Technology \(2 cr\)](#)
6. Add **FCS 465 Introduction to FCS Student Teaching** (3 cr). Field-based introduction to the student teaching environment with guided observations and initial lesson development. Prereq: Assignment to student teaching site. [Summer 2002]

## FISH AND WILDLIFE RESOURCES

1. Add **Fish 524 Fish Disease Diagnostics and Control** (2 cr). Introduction and training in diagnostic techniques and control methodologies for common fish diseases: review of the cellular mechanisms for disease defense in fish. (Alt/yr; fall only) [Summer 2002]
2. Change credits and description of: **Fish 530 Stream Ecology** ([2 3](#) cr). Same as Rnge 530. Structure and function of running water ecosystems; principles of population, community, and ecosystem ecology in streams and rivers. [Three 1-day field trips required](#). (Alt/yr; spring only) [Summer 2002]
3. Add **Wif 482 Ornithology** (4 cr) (Zool 482). Evolution, systematics, distribution, identification, and biology of birds, including current conservation efforts. Requires two days of field trips. Prereq: Biol 112 (Spring only) [Summer 2002]

## FOOD SCIENCE AND TOXICOLOGY

1. Add **FST 489 Food Product Development** (3 cr). Course serves as a capstone experience for Food Science seniors, and will require the application of Food Chemistry, Food Processing/Engineering, and Microbiology course knowledge in formulating a new food product. Prereq: FST 303, 416, and 460, or perm. [Summer 2002]
2. Change curricular requirements of: **Food Science (B.S.F.S.)** [Summer 2002]  
[First and Second Years](#)  
ASM 240 Computer Applications in Biological Systems (3 cr)  
[Biol 100 Introduction to Biology \(4 cr\)](#)  
Chem 111 Principles of Chemistry I (4 cr)  
Chem 113 Inorganic Chemistry and Qualitative Analysis (5 cr)  
[Chem 275, 276 Carbon Compounds and Lab \(4 cr\)](#)  
Comm 101 Fundamentals of Public Speaking (2 cr)  
Econ 202 Principles of Economics (3 cr)  
FST 170 Food: Science and Practice (3 cr)  
FST 220 Food Safety and Quality (3 cr)

MMBB 250 General Microbiology (5 cr)  
Phys 111 General Physics I (4 cr)  
Two courses chosen from Math 160, 161, 170, and 175 (7-8 cr)

**Third and Fourth Years**

FST 303 Food Processing (3 cr)  
FST 400 Seminar (1 cr)  
FST 416, 417 Food Microbiology and Lab (4 cr)  
FST/ASM 433, 434 Agricultural Processing Systems and Lab (4 cr)  
~~FST 450 Food Fermentations or FST 464 Food Toxicology (3 cr)~~  
FST 460, 461 Food Chemistry and Lab (4 cr)  
FST 462 Food Analysis (4 cr)  
FST 470 Advanced Food Technology (3 cr)  
~~FST electives chosen from FST 301, 304, 363, 474 (5-6 cr)~~  
Engl 317 Technical Writing (3 cr)  
FCS 205 Concepts in Human Nutrition (3 cr)  
~~MMBB 380 Introductory Biochemistry or MMBB 300 Survey of Biochemistry (3-4 cr)~~  
Stat 251 Principles of Statistics (3 cr)  
~~FST 489 Food Product Development (3 cr)~~  
Electives to total 128 credits for the degree  
Select one of the following emphasis areas.

**I. Processing Emphasis**

MMBB 300 Survey of Biochemistry (3)  
Biol 100 Introduction to Biology (4)  
Chem 275 Carbon Compounds (3)  
Chem 276 Carbon Compounds Lab (1)  
Select 12 credits from the following:  
FST 398 Internship (3)  
FST 301 Dairy Technology (3)  
FST 304 Cereal Products (2)  
FST 363 Animal Products for Human Consumption (3)  
FST 464 Food Toxicology (3)  
PISc WS 360 World Agricultural Systems (3)  
PISc 490 Potato Science (3)  
AVS 463 Advances in Meat Science (3)

**II. Business Emphasis**

MMBB 300 Survey of Biochemistry (3)  
Biol 100 Introduction to Biology (4)  
Chem 275 Carbon Compounds (3)  
Chem 276 Carbon Compounds Lab (1)  
Select 12 credits from the following:  
Acct 201 Intro to Financial Accounting (3)  
Acct 202 Intro to Managerial Accounting (3)  
Bus 301 Financial Management (3)  
Bus 311 Introduction to Management (3)  
Bus 321 Marketing (3)  
Bus 350 Management Information Systems (3)  
Bus 370 Production/Operations Management (3)

**III. Science Emphasis**

MMBB 380 Introductory Biochemistry (4)  
Biol 201 Introduction to the Life Sciences (4)  
Chem 277 Organic Chemistry I (3)  
Chem 278 Organic Chemistry I: Lab (1)  
Select 11 credits from the following:  
FST 464 Food Toxicology (3)  
FST 499 Directed Study (3 - 4)  
MMBB 382 Introductory Biochemistry Laboratory (1)  
MMBB 420 Epidemiology (3)

- [MMBB 425 Microbial Ecology \(3\)](#)
- [MMBB 440 Advanced Laboratory Techniques \(4\)](#)
- [MMBB 460 Microbial Physiology \(3\)](#)
- [Electives to total 128 credits for the degree](#)**

#### **FOREIGN LANGUAGES AND LITERATURES**

1. Move to dormant status: **Span 301 Advanced Grammar** (3 cr). [Fall 2001]
2. Add **subject prefix of “NezP”** (Nez Perce Language) to the Department Foreign Languages & Literatures course offerings. [Summer 2002]
3. Add **NezP 101 Elementary Nez Perce I** (4 cr). Pronunciation, vocabulary, reading, spoken Nez Perce, and functional grammar. [Summer 2002]
4. Add **NezP 102 Elementary Nez Perce II** (4 cr). Pronunciation, vocabulary, reading, spoken Nez Perce, and functional grammar. Prereq: NezP 101. [Summer 2002]
5. Add **NezP 201 Intermediate Nez Perce I** (4 cr). Reading, grammar review, speaking, and writing. Prereq: NezP 102. [Summer 2002]
6. Add **NezP 202 Intermediate Nez Perce II** (4 cr). Reading, grammar review, speaking, and writing. Prereq: NezP 201. [Summer 2002]

#### **HEALTH, PHYSICAL EDUCATION, RECREATION AND DANCE**

1. Remove from dormant status and redisplay in catalog: **PEP 519 Biomechanics of Sport** (3 cr). Quantitative study of human movement examining internal and external forces acting on the body and the resultant limitations to motor behavior. [Spring 2002]

#### **LAW**

1. Add **Law 931 Intellectual Property: Patents and Copyrights** (2 cr). A survey of the means by which inventors and authors obtain and enforce rights under the patent and copyrights statutes. [Summer 2002]
2. Change title of: **Law 922 [Intellectual Property: Unfair Competition](#)** (2 cr). [Summer 2002]

#### **LIBRARY SCIENCE**

1. Add **LibS C428 Children’s Literature for School Librarians** (3 cr). This course will develop students’ basic knowledge and understanding of the field of children’s literature, particularly as it pertains to librarians, with a focus on children ages 2-12. This course will emphasize skills, tools, and insights necessary for effective professional librarianship in the area of services to children. [Summer 2002]
2. Add **LibS C429 Adolescent Literature for School Librarians** (3 cr). This course will develop students’ knowledge of adolescent literature as it pertains to librarians, with a focus on youth grades 6-12. It emphasizes the skills and discernment necessary by the librarian to effectively serve adolescents. Evaluation tools for selecting literature and electronic resources will be covered, and issues relating to materials selection and promotion for the secondary school library will be explored. [Summer 2002]

#### **MECHANICAL ENGINEERING**

1. Change title and description of: **ME 323 Mechanical Engineering Design Seminar** (3 cr). Professional practice and technical topics including ethics, safety, engineering practice; green engineering, societal impact, health and safety, and manufacturability related to engineering design; emphasis on further development of oral presentation and writing skills Structuring a solution approach for open-ended problems. Elements of modern design theory. Multidisciplinary teamwork. Information collection and self-directed learning. Professional issues in engineering practice such as economics, ethics, environmental topics, safety, and patents. Approximately 25% of class time is devoted to project work. Prereq: ME 223. [Summer 2002]
2. Add **ME J417/J517 Turbomachinery** (3 cr). Introduction to the basic principles of modern turbomachinery. Emphasis is placed on steam, gas (combustion), wind and hydraulic turbines. Applications of the principles of fluid mechanics, thermodynamics and aerodynamics to the design and analysis of turbines and compressors are incorporated. Additional technical research report and presentation reqd for grad cr. Prereq: Engr 320, Engr 335, or perm. [Summer 2002]
3. Change description of: **ME J420/J520 Fluid Dynamics** (3 cr). Same as CE J420/J520. Cr not granted for both ME 420 and ME 520. A second fluid dynamics course emphasizing theoretical perspective appropriate for either research or grad school preparation; featuring vector calculus and integral and differential forms of the conservation laws. †Topics include fluid properties, fluid statistics, inviscid flow; conservation of mass, momentum and energy; and turbulence tensor analysis, kinematics, Navier-Stokes equation, energy equation, and vortex dynamics; study of current literature. Other topics may be covered. Additional projects/assignments reqd for grad cr. Prereq: Engr 335, Math 310, or perm. [Summer 2002]
4. Change description, prereqs, and cross-list: **ME ID&WS481 Control Systems** (3 cr). Same as EE 470. WSU ME 481. Analysis and design of feedback control systems utilizing frequency and time domain methods, and computer-aided design tools. Prereq for EE and CoE majors: Engr 220, Math 310, and EE 350. Prereq for ME majors: ME 313, or graduate standing. [Summer 2002]

#### MICROBIOLOGY, MOLECULAR BIOLOGY AND BIOCHEMISTRY

1. Drop from dormant list: **MMBB 483 Virology Lab** (2 cr). [Summer 2002]
2. Drop from dormant list: **MMBB 484 Biochemistry Lab** (2 cr). [Summer 2002]
3. Change title: **MMBB 564 Advances in Developmental Genetics and Cellular Biology** (1-4 cr, max 8). [Summer 2002]

#### RANGELAND ECOLOGY AND MANAGEMENT

1. Change credits and description of: **Rnge 530 Stream Ecology** (2 3 cr). Same as Fish 530. Structure and function of running water ecosystems; principles of population, community, and ecosystem ecology in streams and rivers. Three 1-day field trips required. (Alt/yrs; spring only) [Summer 2002]

#### TEACHING, LEARNING & LEADERSHIP

1. Add **EDTE 432 Secondary Social Studies Methods I** (2 cr). Specific methods, research, curricula, and media in teaching Secondary Social Studies Methods. [Summer 2002]
2. Add **EDTE 442 Secondary Social Studies Methods II** (2 cr). Implementation of methods, research, curricula, and media in teaching Secondary Social Studies Methods. Prereq: EDTE 432; Coreq: EDTE 485. [Summer 2002]
3. Add **EDTE 436 Secondary Art Methods I** (2cr). Specific methods, research, curricula, and media in teaching Secondary Art Methods. [Summer 2002]

4. Add **EDTE 446 Secondary Art Methods II** (2cr). Implementation of methods, research, curricula, and media in teaching Secondary Art Methods. Prereq: EDTE 436; Coreq: EDTE 485. [Summer 2002]
5. Add **EDTE 437 Secondary Foreign Language Methods I** (2 cr). Specific methods, research, curricula, and media in teaching Secondary Foreign Language. [Summer 2002]
6. Add **EDTE 447 Secondary Foreign Language Methods II** (2 cr). Implementation of methods, research, curricula, and media in teaching Secondary Foreign Language. Prereq: EDTE 437; Coreq: EDTE 485. [Summer 2002]
7. Add **EDTE 528 Seminar in Middle School/High School I** (2cr). This course will develop the students knowledge of the organizational structure, history, research and philosophy of the American Middle School and High School. Coreq: EDTE 485. [Summer 2002]
8. Add **EDTE 529 Seminar in Middle School/High School II** (2cr). This course will further develop the students knowledge, dispositions and performances of the teacher in the Middle School and High School setting. Prereq: EDTE 528; Coreq: EDTE 485. [Summer 2002]
9. Change title, description, and prereqs of: **EDTE 551 Children's Literature and Literacy Strategies Across the Curriculum** (3 cr). How all phases of literature fit into and become a part of the curriculum; developing various areas of the curriculum based on literature; evaluation of literature, authors, and illustrators. The course will examine various genres of literature appropriate for children and methods of increasing literacy skills through the use of these books. Identification and integration of tradebooks in content areas with multiple strategies to increase reading comprehension will be a focus of the course. Prereqs: EDTE 320 and 338. [Summer 2002]
10. Add **EDTE 560 Reading with a Second Language Learner** (3 cr). Participants examine the specific needs of second language learners in relation to reading instruction. A general foundation of L2 acquisition will be included in the course. Prereq: EDTE 322 or equivalent. [Summer 2002]
11. Change title and description of: **EDTE 561 Issues Readings in Literacy** (3 cr). Current issues in literacy and their impact on classroom instructional practice Course examines current issues and practices in literacy instruction, with emphasis on the research bases underlying these issues and practices. Students read current studies and professional writing and share their understandings of these sources in weekly discussions augmented by instructor and guest presentations. [Summer 2002]
12. Change title, description, and prereq of: **EDTE 562 Advanced Reading Techniques Orchestrating the Classroom Literacy Program** (3 cr). Consideration of the research basis for current instructional practices in reading and development of more effective techniques for teaching reading. Prereq: EDTE 336 or perm Course examines the basis for establishing and operating classroom literacy programs – reading, writing, spelling, listening and speaking. Numerous organizational models are presented and critiqued. [Summer 2002]
13. Change title, description, and prereqs of: **EDTE 565 Psycholinguistics and Reading Linguistics, Literacy, and Brain Function** (3 cr). Examining reading as a socio-psycholinguistic process; analyzing this process using miscue analysis; exploring ways to relate theory to practice Course Examines the psycholinguistic processes of literacy acquisition and learning in conjunction with recent physiological brain research. Prereq: EDTE ~~336 or perm~~ 320 and 466. [Summer 2002]
14. Change title, description, and prereqs of: **EDTE 566 Corrective Analysis and Correction of Reading Difficulties** (3 cr). Nature, causes, and diagnosis of moderate reading difficulties; translation of diagnostic information into instructional practice Course examines causes of reading and writing difficulties and various methods for remediating those difficulties. Students administer a variety of literacy assessments, norm referenced, criterion referenced and informal. The emphasis is on learning to administer and interpret the results from these assessments in order to plan and then implement an effective intervention program for students having difficulty learning to read and write fluently. Prereq: EDTE 336, 562, or equivalent. [Summer 2002]

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## FOR THE FACULTY'S INFORMATION

### Correction to General Curriculum Report #216, dated May 11, 2001:

Add MMBB ~~J484/J584~~ **J476/J576 Biophysical Chemistry** (3 cr). Basic principles and applications of physical chemistry as applied to biological processes. An emphasis will be placed on using thermodynamics to describe protein folding and stability and quantum mechanics to describe the principle spectroscopic methods used to study biological macromolecules. Additional oral and/or written assignments reqd for grad cr. Prereq for 476: Chem 372, Phys 112, MMBB 380, and MMBB 382. Coreq for 476: Math 160 or 170. Prereq for 576: MMBB 541. [Spring 2002]

### Editorial change to Regulation D-5:

**D-5. Review and Prerequisite Courses.** Students will not receive credit for courses taken in review or for courses that are prerequisites of courses they have already completed in the same subject area, ~~except~~ Exceptions:1) As stated in I-1, 2) Students who transfer in a course for which the UI requires Biol 201 as a prerequisite (but who have not yet taken Biol 201), may take Biol 201 for credit. [Summer 2001]

### Changes to cooperative courses approved since the last general curriculum report:

1. Change cooperative status: **Stat ID&WS 540 Computer Intensive Methods** (3 cr). WSU Stat 536. [Spring 2002]
2. Drop cooperative status: **ASM ~~ID210~~ Small Engines** (2 cr). ~~WSU AgTM 210~~. [Spring 2002]
3. Change number and description: **PISc WS~~234~~ 334 Controlled Environments for Horticultural Production** (3 cr). WSU Hort ~~234~~ **334**. [Spring 2002]
4. Change prereq: **Econ ID-J455/J555 History of Economic Thought** (3 cr). WSU Econ 402. Development of economic thought; special focus on selected schools, including Greeks, Scholastics, Mercantilists, Physiocrats, Classical, and neo-Classical. Additional projects/assignments reqd for grad cr. Prereq: Econ ~~351, 352, or perm 201 and 202, or Econ 272~~. [Summer 2002]
5. Change description: **Fish ID422 Concepts in Aquaculture** (3 cr). WSU NATRS 424. Concepts and methods of extensive and intensive aquaculture in warm water and cold water systems. ~~One 1-day field trip~~ Two field trips required (a 1-day and a 3-day field trip). Prereq or coreq: Fish 411. (Fall only) [Summer 2002]
6. Change description: **Fish ID424 Fish Health Management** (3 cr). WSU NATRS 421. Epidemiology, prevention, diagnostics, and treatment of infections and non-infectious diseases of free-living and confined finfish and shellfish. Two field trips required (a 1-day and a 3-day field trip). Prereq: MMBB 250; Fish 422 recommended. (Spring only) [Summer 2002]
7. Change description: **FCS ID561 Sports Nutrition** (3 cr). WSU FSHN 561. Macronutrient and selected micronutrient utilization during exercise and restoration after feeding, dietary surveys of athletes, dietary ergogenic aids, and discussion of the origins of dietary recommendations for athletes. Prereq: perm. (Alt/yr; Spring only) [Summer 2002]