The Faculty Senate was called to order by Robert Greenberg, Chair, on Thursday, October 29, 1998, in FSHN, T101, at 3:40 p.m. Fifty (50) members were present, twenty-nine (29) members were absent with three (3) vacancies. Seven (7) nonvoting members were present. (See Attached.)

Minutes of October 8, 1998 Meeting were approved as circulated.

Announcements (Information Items).

1. Faculty Senate officers met with the Provost and Vice Provost on October 21, 1998.

2. Minor Change Bulletins # 1, 2, 3, 4, 5, and 6 are in Exhibit B is as follows:

**MEMORANDUM**

**TO:** Deans and Chairs  
**FROM:** Becky Bitter, Registrar’s Office  
**DATE:** 6 April 1998  
**SUBJECT:** Minor Change Bulletin No. 1 and Corrections to the 1997 WSU Catalog

The courses listed below reflect the minor curricular changes approved by the catalog editor since approval of the last Minor Change Bulletin. All changes are underlined. Deletions are crossed out. The column to the far right indicates the date each change becomes effective. The corrections have been noted since the publication of the 1997 WSU Catalog and are effective immediately.

- **E E 416** [M] Electrical Engineering Design 3 (1-6) Prereq senior in E E; E E 485; Engl 402 or 403. Electrical engineering design of several specific open-ended projects including design specifications, codes, costs, EIS; written and oral presentations and reports.  
  8-98

- **E E 434** VLSI Systems I 3 (2-3) Prereq E E 314; 414 324; or c//; 466 or c//. System, circuits, and physical level design of very large scale integrated circuits using CAD software; project specification, documentation, and reporting.  
  8-98

- **E E 444** [M] VLSI Systems II 1 (0-3).  
  1-99

- **E E 489** Introduction to Control Systems 3 Prereq C E 214, E E 321. State variable models, system response, stability analysis, root locus analysis and design; frequency-response and state-space analysis and design.  
  8-98

- **E E 495** Internship in Electrical Industry II V 2-4 May be repeated for credit; cumulative maximum 8 hours. Prereq E E 341 or 361. For juniors and seniors in E E. Students work full time on engineering assignments in approved industries. S, F grading.  
  8-98

- **E E 534** High Performance Computing 3 Prereq E E 444 324. Development, current state and future of high speed computing; application of existing commercial supercomputers to engineering problems. Cooperative course taught by UI (EE 504), open to WSU students.  
  8-98
P/T 505  **Principles and Methods of Toxicology**  3  Basic concepts in mammalian toxicology and the methodology currently employed for toxicological investigations. Cooperative course taught by WSU, open to UI students (FST 505).

**Correction to the 1998 WSU Catalog**

**Political Science**

**Pol S 543**  **Topics in Public Administration and Policy**  3  May be repeated for credit; cumulative maximum 6 hours. Prereq graduate standing. Examination of the literature on the politics of the American public policy process.

**University**

**Univ 591**  **Seminar in Interdisciplinary Studies**  1  May be repeated for credit. Contemporary issues in interdisciplinary education and research. Open to all interested students.

**Memorandum**

**TO:** Deans and Chairs  
**FROM:** Becky Bitter, Registrar’s Office  
**DATE:** 15 May 1998  
**SUBJECT:** Minor Change Bulletin No. 2 and Corrections to the 1998 WSU Catalog

The courses listed below reflect the minor curricular changes approved by the catalog editor since approval of the last Minor Change Bulletin. All changes are underlined. Deletions are crossed out. The column to the far right indicates the date each change becomes effective. The corrections have been noted since the publication of the 1997 WSU Catalog and are effective immediately.

**CoPsy 512**  **Theories, Research, and Techniques in Counseling Psychology II**  3 or 4  Prereq CoPsy 511. Advanced counseling theory; interpretations of theories and principles of counseling psychology. Advanced study of process techniques and outcome research in the field of counseling and psychotherapy; nonspecific process skills are presented and integrated into specific, empirically validated interventions.

**Econ 360**  **Regulation in American Society: The Economics of Organization, Contracting, and Law**  3  Prereq Econ 101. Economic and political analysis of the origins, development, and application of government regulation. Examination of the economic and legal aspects of contractual and non-contractual ways of organizing transactions by businesses.

**Ed Ad 440**  **Principles of Service and Leadership**  3  Prereq Ed Ad 389, senior standing. Individual and group opportunities to apply leadership skills, theory, and principles to a proposed service learning project.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ES/RP 210</td>
<td>Microcomputer Models of Environmental Systems</td>
<td>3</td>
<td>Math 140 or 171; Rec ES/RP 104</td>
<td>Introduction to using microcomputers to model environmental systems. Cooperative course taught by WSU, open to UI students (EnvS 210).</td>
</tr>
<tr>
<td>ES/RP 445</td>
<td>Hazardous Waste Management</td>
<td>3</td>
<td></td>
<td>Environmental, technical, and political aspects of hazardous waste management; evaluative methods, risk assessment, and current management requirements. Credit not granted for both ES/RP 445 and 545. Cooperative course taught by WSU, open to UI students (EnvS 445).</td>
</tr>
<tr>
<td>ES/RP 545</td>
<td>Hazardous Waste Management</td>
<td>3</td>
<td>Graduate-level counterpart of ES/RP 445; additional requirements. Credit not granted for both ES/RP 445 and 545. Cooperative course taught by WSU, open to UI students (EnvS 545).</td>
<td></td>
</tr>
<tr>
<td>ES/RP 550</td>
<td>System Dynamics Models of Environmental Systems</td>
<td>3</td>
<td>Math 140 or 171; graduate standing.</td>
<td>Analysis of environmental system dynamics; development and uses of simulation models using the Stella software on Macintosh. Cooperative course taught by WSU, open to UI students (EnvS 550).</td>
</tr>
<tr>
<td>Hort 421</td>
<td>Management of Woody Horticultural Crops Fruit Crops Management</td>
<td>3</td>
<td></td>
<td>Prereq woody horticultural crop production, a plant physiology course. Management strategies for optimizing the productivity and resource utilization efficiency of woody horticultural fruit tree, vine, and ornamental crops. Credit not granted for both Hort 421 and 521.</td>
</tr>
<tr>
<td>Hort 521</td>
<td>Management of Woody Horticultural Crops Fruit Crops Management</td>
<td>3</td>
<td>Graduate-level counterpart of Hort 421; additional requirements. Credit not granted for both Hort 421 and 521.</td>
<td></td>
</tr>
<tr>
<td>ID 311</td>
<td>History of Design II</td>
<td>3</td>
<td>Prereq ID 211 or by permission only.</td>
<td>History of design forms, interiors and furnishings from the industrial revolution through the 20th century.</td>
</tr>
<tr>
<td>PharS 437</td>
<td>Pharmaceutics Laboratory I</td>
<td>1 (0-3)</td>
<td>Prereq PharS 431.</td>
<td>Laboratory in the preparation of solutions, solid, semisolid, and dispersed liquid dosage forms.</td>
</tr>
<tr>
<td>Soc 415</td>
<td>Ecology of Human Societies</td>
<td>3</td>
<td>Prereq Anth 101, or Soc 101, or ES/RP 101; completion of one Tier I and three Tier II courses in appropriate area of coherence.</td>
<td>Ecological and evolutionary foundations of human social organization and culture; theories of ecosystem and social system interdependencies.</td>
</tr>
<tr>
<td>Soc 533</td>
<td>Social Impact Assessment</td>
<td>3</td>
<td>Sociology’s contribution to environmental impact assessments; methods, contexts, and contexts of assessing social impacts of proposed developments.</td>
<td>Cooperative course taught by WSU, open to UI students (RRT 504).</td>
</tr>
</tbody>
</table>
Correction to the 1998 WSU Catalog

Business Administration

Degree Program Requirements
Where Econ 101 and Econ 102 is listed as a requirement correct it to list Econ 101 or Econ 102 [S] GER

Zoology

Zool

411 Limnology 4 (2-2) Prereq general ecology. Physical, chemical, and biological features of lakes and streams. Field trips required. Cooperative course taught by UI (Fish 415), open to WSU students.

MEMORANDUM

TO: Deans and Chairs
FROM: Becky Bitter, Registrar’s Office
DATE: 23 May 1998
SUBJECT: Minor Change Bulletin No. 3 and Corrections to the 1998 WSU Catalog

The courses listed below reflect the minor curricular changes approved by the catalog editor since approval of the last Minor Change Bulletin. All changes are underlined. Deletions are crossed out. The column to the far right indicates the date each change becomes effective. The corrections have been noted since the publication of the 1997 WSU Catalog and are effective immediately.

A S 345 (305) Introduction to Animal Growth and Development 3 Prereq A S 101, Bio S 103. Animal structure, composition, whole body and cellular growth, prenatal and postnatal growth; emphasis on skeletal muscle, bone and adipose tissue. Cooperative course taught by WSU, open to UI students (AVS 315).

A S 366 Equine Science and Management 3 (2-3) Prereq A S 166 or equivalent horse experience. Development, functional use, behavior and management of the horse. Operational management of a horse stable, promotion, marketing, liability issues, insurance and business needs, and fiscal transactions with equine businesses. Field trip required. Cooperative course taught by WSU, open to UI students (AVS 366).

F A 390 Elementary School Art Education 2 (1-2) Prereq prior coursework in art history; Rec F A 201 or 202. Theory and methods for the study and making of art including practice using art media for creative expression.


PharS 542P Pharmacological Basis of Therapeutics III 6 Prereq PharS 541P. Structure activity relationship, mechanism of action, pharmacodynamics of chemotherapeutics, peripheral nervous system, cardiovascular, renal and gastrointestinal drugs.
Correction to the 1998 WSU Catalog

Microbiology
Micro 102[B] Introductory Microbiology 3 4 (3-3) Microbiology for the informed citizen as it impacts humans and their environment. Not for students who have taken Bio S 103 and 104. Credit not granted for both Micro 101 and 102.

MEMORANDUM
TO: Deans and Chairs
FROM: Becky Bitter, Academic Governance Coordinator, Registrar’s Office
DATE: 24 August 1998
SUBJECT: Minor Change Bulletin No. 4 and Corrections to the 1998 WSU Catalog

The courses listed below reflect the minor curricular changes approved by the catalog editor since approval of the last Minor Change Bulletin. All changes are underlined. Deletions are crossed out. The column to the far right indicates the date each change becomes effective. The corrections have been noted since the publication of the 1998 WSU Catalog and are effective immediately.

Crm J/Pol S 381 Justice, Law and the Media: Crime and Justice in the Movies 3 2 (2-2) Prereq Crm J 101 or Pol S 101. Mass media as both reflector and shaper of public attitudes and opinions about crime, criminals, law, order, and justice; using films.

E E 424 Digital System Architecture 4 3 (3-3) Prereq E E 314, 324, 444. Modern developments in digital system design, parallel structures, pipelining, input/output, high speed circuits, laboratory experience in digital system design; emphasis on CPU architecture.

E E 516 Remote Sensing Theory Wave Propagation and Scattering 3 3 Prereq E E 518. Radiative transfer theory; Rough surface scattering; scattering in random media; scattering by random discrete scatterers; applications in areas of current interest. The matrix method; inverse scattering. Cooperative course taught by WSU, open to UI students (E E 536).

Ed Ad 574 Seminar in Higher Education Development of Social Identity V 1-3 May be repeated for credit; cumulative maximum 6 hours. Contemporary issues, analyses and developments of higher education programs and institutions.

Ed Ad 587 Seminar in School Administration Effective Communication Skills for Education Leaders V 1-6 May be repeated for credit; cumulative maximum 6 hours. Interdisciplinary seminars; related studies; discussions in several areas by specialists.

Ger 422 [M] German Literature of the Enlightenment and Sturm und Drang 18th Century German Studies: Topics 3 Prereq Ger 310, 312, or 320, 320 or 322. Representative texts (cultural, literary, historical) of eighteenth-century German-speaking Europe.

NATRS 421 drop Fish Diseases 3 2 (3-3)
Faculty Senate Minutes
October 29, 1998
Page 6

**Psych 550**  
**Attitudes and Social Cognition**  
3 Theories, findings, and methods in group processes, interpersonal attraction, and personal perception. Attitude structure, function, and change. Social cognition and motivation, and attributions. Cooperative course taught by WSU, open to UI students (Psych 520).

**Psych 551**  
**Interpersonal Dynamics Group and Interpersonal Processes**  
3 Theories and research in interpersonal dynamics; cognitive, learning, equity, and attributional concepts. Group performance and interpersonal interaction, social influence, distributive and procedural justice, helping, and attraction.

Correction to the 1998 WSU Catalog

Computer Skills and Literacy Courses  
**Cpt S 101**  
**Personal Computer Tools-Tools**

---

**MEMORANDUM**

TO: Deans and Chairs
FROM: Becky Bitter, Academic Governance Coordinator, Registrar’s Office
DATE: 15 September 1998
SUBJECT: Minor Change Bulletin No. 5 and Corrections to the 1998 WSU Catalog

The courses listed below reflect the minor curricular changes approved by the catalog editor since approval of the last Minor Change Bulletin. All changes are underlined. Deletions are crossed out. The column to the far right indicates the date each change becomes effective. The corrections have been noted since the publication of the 1998 WSU Catalog and are effective immediately.

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credit Hours</th>
<th>Effective Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>A S 306</td>
<td><strong>Introduction to Skeletal Muscle Physiology</strong> 3</td>
<td>8-99</td>
<td></td>
</tr>
<tr>
<td>346</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ger 426</td>
<td><strong>German Literature of the Early 20th Century</strong> 3 Prereq Ger 310, 312, or</td>
<td>8-99</td>
<td></td>
</tr>
<tr>
<td></td>
<td>320. 322 or 332. Representative texts (cultural, literary, historical) of</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>twentieth-century German-speaking Europe.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Corrections to the 1998 WSU Catalog</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Biological Systems Engineering**  
**BSysE 120**  
**Innovation in Design**  
2 Same as M E 120.

**Biology**  
**Bio S 490**  

**Graduate Major Change Bulletin No. 4**

**Nursing**  
**Core Courses and Credit Hours in the Areas of Concentration**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nurs 504</td>
<td>4</td>
</tr>
<tr>
<td>Nurs 507</td>
<td>2</td>
</tr>
<tr>
<td>Nurs 700</td>
<td>6</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>Nurs 700/702</td>
<td>3</td>
</tr>
</tbody>
</table>

**Political Science**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pol S 543</td>
<td>Topics in Public Administration and Policy 3</td>
<td>3</td>
<td>May be repeated for credit; cumulative maximum 6 hours. Prereq graduate standing. Examination of the literature on the politics of the American public policy process.</td>
</tr>
</tbody>
</table>

**Recreation and Leisure Studies**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RLS 395</td>
<td>Practicum in Recreation/Leisure Research V 1</td>
<td>(0-3)</td>
<td>By interview only. May be repeated for credit; cumulative maximum 8 hours. Supervised practicum. S, F grading.</td>
</tr>
</tbody>
</table>

**Speech and Hearing Sciences**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHS 503</td>
<td>Research Methods Part II 2</td>
<td>2</td>
<td>Experimental and descriptive designs, application of statistics, analysis of statistical results.</td>
</tr>
</tbody>
</table>

**Statistics**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stat 504</td>
<td>Special Topics 3</td>
<td>3</td>
<td>Prereq Stat 444, 456.</td>
</tr>
<tr>
<td>Stat 548</td>
<td>Statistical Theory I 3</td>
<td>3</td>
<td>Same as Math 548, 568.</td>
</tr>
<tr>
<td>Stat 549</td>
<td>Statistical Theory II 3</td>
<td>3</td>
<td>Same as Math 549, 569.</td>
</tr>
</tbody>
</table>

**University**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Univ 591</td>
<td>Seminar in Interdisciplinary Studies 1</td>
<td>1</td>
<td>May be repeated for credit. Contemporary issues in interdisciplinary education and research. Open to all interested students.</td>
</tr>
</tbody>
</table>

**MEMORANDUM**

TO: Deans and Chairs
FROM: Becky Bitter, Academic Governance Coordinator, Registrar’s Office
DATE: 8 October 1998
SUBJECT: Minor Change Bulletin No. 6

The courses listed below reflect the minor curricular changes approved by the catalog editor since approval of the last Minor Change Bulletin. All changes are underlined. Deletions are crossed out. The column to the far right indicates the date each change becomes effective. The corrections have been noted since the publication of the 1998 WSU Catalog and are effective immediately.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anth 573</td>
<td>Identification of Faunal Remains Zooarchaeology</td>
<td>4 (2-6)</td>
<td>The relevance of faunal remains in archaeological context, excavating, preserving, and identifying bones commonly encountered in archaeological sites. Field trip required. Identification of animal bones from archaeological sites, methodological and theoretical techniques for interpreting faunal remains. Cooperative course taught by WSU, open to UI students (Anthr 573).</td>
</tr>
<tr>
<td>Ath T 311</td>
<td>Strength Training 3</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

drop
B Law 410  Law and Government Regulation of Business 3 Prereq B Law 210. Legal aspects of government regulation of business; administrative law, antitrust law, environmental law, and labor law. 8-99

BC/BP 565  Molecular Biology I 3 Prereq BC/BP 563, BC/BP 364, GenCB 301. Survey of recombinant DNA methods; DNA sequencing; site-directed mutagenesis; and methods for analyzing gene structure and function; transposable elements. DNA replication and recombination in prokaryotes and eukaryotes; recombinant DNA methods and host/vector systems; genome analysis; transgenic organisms. 8-99

C E 531  Probabilistic Methods in Structural Design 3 Structural Reliability. Probabilistic structural analysis and design; probabilistic characterization of material properties and load combinations (dead, live, earthquake, wind); LRFD structural design. Cooperative course taught jointly by WSU and UI (CE 445/545). 1-99

C E 542  Environmental Engineering Unit Processes 3 Prereq C E 541. Biochemical energetics and kinetics; biological waste treatment processes; nutrient removal; advanced wastewater treatment design. Cooperative course taught jointly by WSU and UI (CE 534 532). 1-99

C E 544  Wastewater Treatment System Design 3 (2-3) Prereq C E 542 or c//. Application of unit operations and processes to design of integrated treatment systems; critical review of designs. Cooperative course taught jointly by WSU and UI (CE 532 536). 1-99

E E 341  Signals and Systems  Communication Systems 3 Prereq E E 321. Analog communication, amplitude and frequency modulation, Fourier transform, filtering, receiver performance; sampling theorem, DFT. Discrete and continuous-time signals, LTI systems, convolution, sampling, Fourier transform, Z-transform, filtering, DFT, amplitude and frequency modulation. 1-99

F A 495  Electronic Imaging Internship V 3-12 3-12 Prereq 6 credits in F A 434, major in F A. Placement in work-related electronic imaging environments for practical application and experience. 8-98

GenCB 566  Molecular Biology II 3 Prereq BC/BP 565, BC/BP 364, GenCB 301. Gene expression and regulation in prokaryotes and eukaryotes, including transcription, RNA processing, and translation; chromatin structure; DNA repair. RNA processing. 8-99

Hort 399  Professional Work Experience V 2-4 1-4 May be repeated for credit, cumulative maximum 8 hours. Prereq basic horticulture. By interview only. Planned and supervised work experience. S, F grading. 1-99
Hort 425  [M] Current Topics in Horticulture 3 Prereq Bot 320, Hort 224, 311, or 320. Classical, current scientific, and popular literature on horticultural topics. Prereq junior standing. Use scientific, business, government, and popular information to explore trends that impact horticulture; organize and evaluate information; investigate selected topics.

Kin 266  drop

NATRS 547  Predator Ecology and Management 3 2 Ecology of predators and predator-prey systems with emphasis on mammalian species, discussion of predation theory and contributions of field studies to understanding the role of predation in natural and altered communities; human-predator conflicts and resolution. One three-day field trip required. Cooperative course taught by UI (WLF 547), open to WSU students.

PharP 217  Drugs in Our Society 2 For nonmajors. The use and abuse of drugs—illicit substances.


PharP 450  Peer Health Advocacy 3 By interview only. Principles and techniques of peer health education and advocacy.

PharP 531P  Clinical Research Methods I: Pharmacoeconomics 3 May be repeated for credit; cumulative maximum 5 hours. Prereq Math 140, PharS 533P, PharP 552P. Pharmacoeconomics and biostatistics.

PharP 532P  Clinical Research Methods II: Pharmacoepidemiology 3 May be repeated for credit; cumulative maximum 3 hours. Prereq PharD student PharP 531P, 557P. Pharmacoepidemiology and biostatistics.

PharP 538P  Parenteral Products 2 (1-3) Prereq PharS 332, 437. Preparation of intravenous admixtures, parenteral nutrition; therapeutic monitoring of antimicrobial surgical prophylaxis, pharmacotherapy of fluid/electrolyte disorders, parenteral nutrition, and emergency situation medications.


PharP 542P  Wellness and Health Promotion 3 Prereq PharD student PharP 541P, 553P, 558P. Health needs and problems of distinct populations; behaviors aimed at prevention, early detection, and treatment of health problems.
<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PharS 437</td>
<td>Pharmaceuticals Laboratory I</td>
<td>1</td>
<td>(0-3) PharS 431 P or c//.</td>
<td>Laboratory in the preparation of solutions, solid, semisolid, and dispersed liquid dosage forms. Formulation and extemporaneous preparation of dosage forms.</td>
</tr>
<tr>
<td>PharS 531P</td>
<td>[M] Pharmaceuticals I</td>
<td>3</td>
<td>Chem 340, 342, Math 140.</td>
<td>Theory, preparation and application of solution dosage forms. Physiochemical principles underlying the design of dosage forms; survey of materials and methods used in the manufacture of dosage forms.</td>
</tr>
<tr>
<td>PharS 533P</td>
<td>Pharmaceuticals III</td>
<td>3</td>
<td>PharS 332, 531P P.</td>
<td>Kinetics Pharmacokinetics of drug medication absorption, distribution, and elimination; dosage regimen design, bioavailability medication regimen design.</td>
</tr>
<tr>
<td>PharS 534P</td>
<td>Pharmaceutical Biotechnology</td>
<td>2</td>
<td>PharS 543P.</td>
<td>Pharmacological Pharmacological and pharmaceutical properties of drugs and therapies medications derived from biotechnology.</td>
</tr>
<tr>
<td>PharS 542P</td>
<td>Pharmacological Basis of Therapeutics III</td>
<td>6</td>
<td>PharS 541P. Structure activity relationship, mechanism of action, pharmacodynamics of antimicrobial, chemotherapeutics, peripheral nervous system, and cardiovascular medications—renal and gastrointestinal drugs.</td>
<td></td>
</tr>
<tr>
<td>PharS 544P</td>
<td>Toxicology</td>
<td>2</td>
<td>PharS 541P or c// 542P, 556P.</td>
<td>Mammalian toxicology emphasizing basic concepts, target organ toxicity, carcinogenesis, clinical toxicology, and the toxicology of natural products and dietary supplements.</td>
</tr>
<tr>
<td>PharS 545P</td>
<td>Quality Assurance Improvement</td>
<td>1</td>
<td>PharP 531P, PharS 533P. Continued quality improvement and a survey of selected quality assurance improvement programs in the pharmaceutical industry and institutional pharmacy practice.</td>
<td></td>
</tr>
<tr>
<td>SHS 562</td>
<td>Neuromuscular Disorders</td>
<td>2</td>
<td>SHS 377. Underlying processes of neuromuscular control and feedback; results of damage and disease on neuromotor system.</td>
<td></td>
</tr>
</tbody>
</table>
SHS 575  Advanced Clinical Practice  V 2-6 to 6 (0-18) Prereq SHS 567 or c//. May be repeated for credit; cumulative maximum 9 hours. Advanced clinical practice in evaluation and treatment of speech, language, and hearing disorders.


3. Response from WSU Public Safety about Skateboarders is in Exhibit C is as follows:

MEMORANDUM
TO: Tom Brigham. Executive Senate, Faculty Senate
FROM: William C. Mercier, Director, Dept. of Public Safety and Police Chief
DATE: October 16, 1998
SUBJECT Skate Boarding in Terrell Mall

Thank you for your memo of October 12, 1998 expressing the concerns of the Faculty Senate regarding skate boarding on Terrell Mall. Skate boarding on the Mall as well as at other campus location is covered by WAC 504-15-930 which currently prohibits the activity but provides no sanctions for violations. As you might imagine, this situation has been a source of frustration for our Police Officers who are placed in the position of clearing violators from the Mall area only to have them quickly return.

As a result I have been working with Rich Hutchinson in the Vice President for Business Affairs office to amend WAC 504-19-810. These amendments would permit us to impose a $25 fine for the unsafe use of bicycles on the Mall as well as empowering us to confiscate all skate boards, roller skates, etc., which would be returned upon payment of a $50 fee. We feel that these sanctions will put sufficient teeth in the regulation which should serve as a deterrent to violators.

The update has been sent to the code revision and I expect hearings will be held on the changes next month. As things look now we are on track to have this amendment before the Regents for approval at their November meeting.

If you need any additional information on this issue please let me know.

4. Faculty Senate Standing Committees reported committee consideration on the following issues (agenda and previously reported items not included) at the October 22, 1998 Steering Committee meeting:
Academic Affairs Planning Review and Graduate Studies Committees are looking at Procedures for Review of Graduate and Undergraduate Degree Programs.

Announcements (Reports).

1. Remarks by the Chair.—R. Greenberg

Greenberg reported the Steering Committee approved a proposal for creation of an ad hoc committee to review the General Education Program. When the Gen Ed program was approved by the Senate the proposal included a provision for a comprehensive review periodically to ensure that WSU was achieving its goals in Gen Ed. Greenberg stated the committee will be chaired by a tenured faculty member and membership will have one person from the colleges of Agriculture and Home Economics, Business and Economics, Education, Engineering and Architecture, Sciences and Liberal Arts. There will also be a faculty member from the branch campuses and the Chair of AAC will be ex officio. Greenberg stated the committee will be asked to finish by the end of spring semester. Greenberg reported on a meeting held with the Provost concerning the Faculty Manual and some minor editorial changes were made. Greenberg stated that sections one and two dealing with history and administrative organization of the University are not matters agreed to by the Senate. Because of this, these two sections will be moved to an introduction of the Manual which makes them separate from those things that were agreed to by the Faculty Senate. Greenberg reminded senators that Rule 66 will be in effect for spring semester that states students may only add a course within the first five (5) days of the semester after that time they will need the instructors permission and pay a fee. Greenberg stated it was important that senators remind their advisees and that they inform the faculty in their departments.

2. Report from Legislative Representatives.—C. Clark, M. Carroll

C. Clark gave an overview of the upcoming session in Olympia. Clark stated the upcoming session will be a difficult one. Clark stated the revenue forecast is being cutback because of the Asian crisis there are also some other issues in the forefront. There are social issues that need to be addressed, health care costs are on the rise, salmon restoration, and the limitations of 601. There are a number of very positive things working for the universities this time. All of public universities in the state have put faculty salaries at the top of their priority list. The presidents will be spending a great deal of time talking about the importance of faculty salaries. It isn’t just talking with regents, it is talking with legislators, the governor, editorial board members, corporate leaders. Clark stated that faculty have additional support coming this year from the alumni association in campaigning for faculty pay raises. They are hoping the alumni will deliver the message of faculty pay raises to their local legislators. The HECB is endorsing 4.5% raises for each of the next two years. Clark stated that the support from the HECB is very important and the Chair of the HECB has said he will make a public statement in support of raises. Between now and the session Clark, Carroll and the Senate officers will be meeting with their counterparts from the other 4 year universities to discuss strategies to support faculty pay raises. The whole objective is to get legislators to move faculty salaries up on the priority list. Clark stated that the University is putting forth two research initiatives the Advanced Technology Initiative that deals with semiconductors, reproductive biology and precision agriculture. Clark said she would work hard on these because it will allow WSU to showcase the importance of WSU research to the state of
Washington. The other initiative is instructional quality through technology that the university is putting forward. Technology can enhance instruction as well as help with distance learning. Clark stated that the Legislative Affairs Subcommittee needs to be developing human interest stories that will demonstrate the urgency for faculty pay raises. WSU has lost some excellent faculty members in the last year or two and we need to explain to the legislators why those losses matter to students and to the state.

Additions or Changes to the Agenda.

The agenda was approved with no objections.

Agenda Items.

Agenda Items (Action Items).

Faculty Affairs Committee has pulled the Electronic Publishing Policies until the November meeting in order to meet with the Attorney General to discuss issues raised by senators at the last meeting.

1. Nominations from Committee on Committees to fill Vacancies on Faculty Senate Committees Exhibit D is as follows:

FROM THE COMMITTEE ON COMMITTEES

The Committee on Committees submits the following names as candidates to serve on Senate committees with terms beginning immediately and ending on the year indicated. Senators are encouraged to study the Committee Manual along with the vitae of the nominees, prior to the meeting of October 29, 1998. Senators desiring to nominate additional persons from the floor MUST PROVIDE written information about the nominees for distribution before the meeting.

EXTENDED UNIVERSITY AFFAIRS COMMITTEE

F-2000 BRODY, David, Assistant Professor, Criminal Justice, WSU-Spokane. Faculty, WSU 1 year. Relevant Experience and Qualifications: Developed and graded CRMJ 320 for EDP. Committee Experience: Current: Instructional Leadership Committee. Previous: Search Committee, Department of Political Science, 1988; Undergraduate Curriculum Committee Department of Political Science.

RESEARCH AND ARTS COMMITTEE

F-2000 ERIKS, Inge, Associate Professor, Veterinary Microbiology and Pathology. Faculty, Graduate Faculty, WSU 6 years. Relevant Experience and Qualifications: Current appointment is 50% teaching and 50% research. Committee Experience: Current: Veterinary Admissions Committee; VPL Library Liaison Committee; Research Scholars Steering Committee; Animal Disposition Committee.

F-2001 ARMSTRONG, Merry, Assistant Professor, College of Nursing. Faculty, Graduate Faculty, Current Senator. WSU 3 years. Committee Experience: Current: Curriculum Committee, College of Nursing. Previous: Student Life;
Awards Committee; Research Committee, for Eastern State Hospital, and other administrative committees.

* * * * *

Balloting resulted as follows: Research and Arts Committee: Inge Eriks, F-2000 and Merry Armstrong F-2001, Extended University Affairs Committee David Brody F-2000.

2. Recommendations from Graduate Studies Committee for Graduate Major Change Bulletins #2 and #3. Exhibit F from 10/8/98 agenda is as follows:

GRADUATE MAJOR CHANGE BULLETIN NO. 3 Fall 1998

The requirements and courses listed below reflect the Graduate Major Curricular Changes approved by the Catalog Subcommittee and the Graduate Studies Committee since approval of the last Graduate Major Change Bulletin. All new and changed courses are printed in their entirety. New and dropped courses are identified under the course prefix and number. Other changes are underlined. The column to the far right indicates the date each change becomes effective.

<table>
<thead>
<tr>
<th>AS 558</th>
<th>Molecular and Cellular Reproduction</th>
<th>3 (2-2) Same as GenCB 558.</th>
<th>1-99</th>
</tr>
</thead>
<tbody>
<tr>
<td>BC/B 558</td>
<td>Molecular and Cellular Reproduction</td>
<td>3 (2-2) Same as GenCB 558.</td>
<td>1-99</td>
</tr>
<tr>
<td>CoPs 532</td>
<td>Current Issues in School Counseling II</td>
<td>3 Prereq CoPsy 531. Additional coverage of contemporary issues of concern to school counselors; comprehensive developmental school programs, school community dynamics, parental involvement, consultation.</td>
<td>1-99</td>
</tr>
<tr>
<td>Ed A 503</td>
<td>Values and Ethics for Educational Leaders</td>
<td>3 Study of ethical theories, the moral dilemmas of public schooling, and the skills of ethical reasoning; professional code of ethics.</td>
<td>1-99</td>
</tr>
<tr>
<td>GenCB 558</td>
<td>Molecular and Cellular Reproduction</td>
<td>3 (2-2) Course will review the state of the art concepts of the molecular, cellular, and physiological aspects of mammalian reproduction.</td>
<td>1-99</td>
</tr>
<tr>
<td>IPM 552</td>
<td>Pesticides and the Environment</td>
<td>2 Graduate-level counterpart of IPM 452; additional requirements. Credit not granted for both IPM 452 and 552.</td>
<td>1-99</td>
</tr>
<tr>
<td>IPM 562</td>
<td>Systems of Integrated Pest Management</td>
<td>3 (2-3) Graduate-level counterpart of IPM 462; additional requirements. Credit not granted for both IPM 462 and 562.</td>
<td>1-99</td>
</tr>
<tr>
<td>NAT RS 531</td>
<td>Wildlife Nutrition</td>
<td>3 (2-3) Graduate-level counterpart of NATRS 431; additional requirements. Credit not granted for both NATRS 431 and 531. Cooperative course taught by WSU, open to UI students (WLF 531).</td>
<td>1-99</td>
</tr>
</tbody>
</table>
SHS 540  Special Topics in Speech and Hearing Sciences  V 1-3  May be repeated for credit; cumulative maximum 9 hours. Advanced study of specialized topics in speech and hearing sciences.  5-99

Zool 558  Molecular and Cellular Reproduction  3 (2-2)  Same as GenCB 558.  1-99

Motion carried.

3. Recommendation from Academic Affairs Committee for Revisions to Rule 90h Incomplete Grade and Rule 54 Minor or Second Major Exhibit G from 10/8/98 agenda is as follows:

MEMORANDUM
TO: Thomas Brigham, Executive Secretary, Faculty Senate
FROM: Becky Bitter, Academic Governance
FOR: Academic Affairs Committee
DATE: 29 September 1998
SUBJECT: Revision to Rule 54, Minor or Second Major Revision to Rule 90h, Incomplete Grades

At its meeting on 23 September 1998, the Academic Affairs Committee approved the following revisions to Rules 54 and 90h, effective fall 1999.

54. MINOR OR SECOND MAJOR. A student who has completed 60 semester hours may certify a minor or second major with the approval of the department offering the second major or minor. The student should consult with the department concerning hours and grade point requirements and an approved schedule of studies to meet such requirements.

A second major requires completion of departmental and college requirements for the major exclusive of General Education Requirements.

A minor requires a minimum of 16 semester hours, half of which must be in upper-division work. Upon completion of the requirements, the department will notify the Registrar's Office, and the minor or second major will be posted on the student’s permanent record (transcript).

90h.I. (Incomplete.) The term is used to indicate that a grade has been deferred. It is for students who for reasons beyond their control are unable to complete their work on time. It is strongly recommended that students who are granted an Incomplete limit their total number of credits to 18 credits (including credits for the Incomplete course and any new courses) during the semester when they are finishing an Incomplete. Undergraduates or graduates who receive an “I” grade in an undergraduate course (100-499) have up to the end of the ensuing year to complete the course, unless a shorter interval is specified by the instructor. If the Incomplete is not made up during the specified time or the student repeats the course, the I is changed to an F. (See Rule 34.) Faculty are required to submit an Incomplete Grade Report (IGR) to the departmental office with every “I” given. The IGR must specify conditions and requirements for completing the Incomplete, as well as any time limitations less than one year.
Revising Rule 54 will correct a typographical error in the rule as it is presented in the appendix to the *WSU Catalog* and will comply with current practice. The revision to Rule 90h will enable advisors to have a suggested credit limitation guideline in writing.

At this time, Faculty Senate review and approval of the revisions to Rule 54 and Rule 90h is recommended, to be effective fall 1999.

* * * * *

Motion carried.

4. Recommendation from Academic Affairs Committee for Undergraduate and Professional Major Change Bulletin #3 **Exhibit H** from 10/8/98 agenda is as follows:

**UNDERGRADUATE AND PROFESSIONAL MAJOR CHANGE BULLETIN NO. 3**
Fall 1998

The requirements and courses listed below reflect the undergraduate major curricular changes approved by the Catalog Subcommittee since approval of the last Undergraduate Major Change Bulletin. All new and changed courses are printed in their entirety. New and dropped courses are identified under the course prefix and number. Other changes are underlined. The column to the far right indicates the date each change becomes effective.

| AS 366 | Equine Science and Management 3 (2-3) Operational management of a horse stable, promotion, marketing, liability issues, insurance and business needs, and fiscal transactions with equine businesses. Cooperative course taught by WSU, open to UI students (AVS 366). |
| Bot 453 | NEW Directed Problems in Cell Biology 1 Same as GenCB 453 1-99 |

**Business** 8-99

Establish BusAd Major Code

Establish Business Administration Major in the College of Business and Economics and housed in the Management and Decision Sciences Department. The business Administration major will have the same college GER and Core requirements needed by all business majors. In addition to the college requirements, BA majors will take the following: Acctg 338, Fin 425, Mgt 401, Mkt 460, one 300-400-level business or economics elective, and two 400-levelBusiness or economics electives.

**Business** 8-99

Bachelor of Arts in Business Administration, International Business major, revised.

<table>
<thead>
<tr>
<th>Current Program</th>
<th>Proposed Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>In Residence Curriculum</td>
<td>Delete In Residence Curriculum as an option</td>
</tr>
<tr>
<td>Foreign Study Curriculum—Transfer of 9 semester hours from an approved foreign study program.</td>
<td>Foreign Study Curriculum required except for students studying at WSU who reside outside the US and who attended at least one year of secondary school in a foreign country.</td>
</tr>
<tr>
<td>Foreign Language—Not required.</td>
<td>One year of foreign language at WSU required except for non-native speakers of English from outside the US who may</td>
</tr>
</tbody>
</table>
substitute satisfactory TOEFL score. Bilingual Americans may substitute satisfactory ETS scores or certifications by a WSU faculty member who is a native speaker of the target language.

International Business major, revised.

Junior Year
Second Semester     Hours
300-400-level Econ\(^3\)  3
Dec S 340 3
Foreign Language Elective  4
Group B A Elective\(^4\)  3
Pol S Elective 3

Senior Year
First Semester     Hours
Foreign Language Elective  4
Group A Elective\(^4\)  9
Elective 3
Study Abroad\(^5\)  12

Second Semester     Hours
Group A Elective\(^4\)  6-9
Group B Elective\(^4\)  3
Mgt 491 or 492 3
Tier III Capstone (GER) 3

---
1 For a total of 7 hours of Biological and Physical Sciences.
2 Math 201 and 202 are strongly recommended.
3 Group B Electives are: Anth 419; Econ 416, 472; Hist 477; Pol S 435, 436, 472.
4 Group A Electives are: I Bus 415, 416 [M], 435, 453, 470, 481, 482 [M], 492 (may not be used under both International Business and Business core), 496, 498, Mktg 498. No more than 3 hours of 498 may be used.
5 Study Abroad coursework must be approved by I Bus director before it is taken and include the second semester of the foreign language requirement.

Cpt S 24 COBOL Programming 2
drop 1
Cpt S 37 Systems Analysis and Design 3
drop 0

Electrical Engineering and Computer Science
Drop Electrical Engineering with Computer Engineering option minor.

Electrical Engineering and Computer Science
Add Computer Engineering minor:

Computer Engineering: 16 semester hours of computer related courses in electrical engineering are necessary to earn a minor, 9 of which must be 300-400-level. E E 214, 314, and 324 are required.
Electrical Engineering and Computer Science
Revise Computer Science minor:

Computer Science: The minor in computer science consists of a minimum of 17 credits which must include Cpt S 150, 250, 350, and **two** 300 or 400-level Cpt S courses, excluding Cpt S 405. The minor program must be approved by the Computer Science Undergraduate Coordinator.

Electrical Engineering and Computer Science
Add Software Engineering minor:

Software Engineering: The minor in software engineering consists of 17 credits. The following courses are required:
Cpt S 150, 250, 350, 422, and 423.

Electrical Engineering and Computer Science
Revise Electrical Engineering minor:

Electrical Engineering: 48 16 semester hours of courses in electrical engineering are necessary to earn a minor; 9 of which must be 300-400-level. Three Two courses (8-6 semester hours) in addition to E E 214, 261, 262, and 314 are required.

Electrical Engineering and Computer Science
Bachelor of Science in Electrical Engineering revised.

**Senior Year**

**First Semester**  Hours  
E E 485 2  
E E 489 3  
Intercultural Studies [I,G,K] (GER) 3  
M E 301 3  
Stat 443 3  
Technical Electives 5 6

**Second Semester**  
E E 416 3  
E E 480 1  
M E 301 3  
Technical Electives 3 13 8  
Tier III Capstone [H,G,S,K] (GER) 3

---

1 Cpt S 150 can be substituted for Cpt S 251.  
2 E E 362 and Engl 402 are taken concurrently.  
3 Electives must be selected with an advisor’s approval and must include sufficient design credit to satisfy the department’s accreditation requirements. Technical electives must all be 300-400 level courses and include at least one of the following individual courses or sets of courses: E E 416, 420, 434 and 444; or 476 and 477. Technical electives must include at least 15 hours of electrical engineering courses. The remaining 3 hours may be in math, science, computer science, or engineering.  
4 Technical electives must all be 300-400-level courses. The capstone design requirement is satisfied by the two-semester sequence, E E 485, E E 416. Technical electives must be selected with an advisor’s approval.
GenCB 453 Directed Problems in Cell Biology 1 Prereq BC/BP 364 or GenCB 301; c//in GenCB 450. Adjunct course to GenCB 450

History 1-99
Revise History minor:

A minor in history requires 46 18 hours, 8 of which must be in 300-400-level courses. A grade of C or better is required in all course work for the minor.

History
Bachelor of Arts, History revised.

IPM 452 Pesticides and the Environment 2 Rec 12 hours Bio S. Intermediate and prolonged effects of pesticides on man and other animals; legal and moral repercussions of pesticide use. Credit not granted for both IPM 452 and 552.


NATRS 385 Resource Recreation and Tourism Management 3 Prereq RRT 287, 310, 311, or by permission only. Comprehensive intro to theory, processes, techniques for managing natural resource recreation and tourism systems; tourists, resource/attraction, and program management strategies demonstrating budgeting, contracting, and human resource management stressed. Cooperative course taught by UI (RRT 385), open to WSU students.

NATRS 431 Wildlife Nutrition 3 (2-3) Nutritional requirements and interactions of wildlife populations. Credit not granted for both NATRS 431 and 531. Cooperative course taught by WSU, open to UI students (WLF 431).


PharP 457 Peer Health Lab II 1 (0-3) Second part early practical experience to introduce knowledge and skills related to patient education, disease management, and medical self-care. S, F grading.

PharS 543P Pharmacological Basis of Therapeutics IV 3 Prereq PharS 542P. Medicinal chemistry, pharmacology and toxicology of drugs acting on the endocrine system; local anesthetics and general anesthetics.
Rus 318 Topics in Russian Study Abroad 4-6 Topics and language study abroad in Vladivostok.

V M 502P Language and Culture for International Externships 1 Prereq two semesters Spanish. Language and culture for students intending on carrying out international externships in veterinary medicine, animal production, or related areas. S, F grading.

Zool new 453 Directed Problems in Cell Biology 1 Same as GenCB 453 1-99

* * * * *

Motion carried.

Agenda Items (Discussion Items).

1. Recommendation from Academic Affairs Committee for Undergraduate and Professional Major Change Bulletin #4 (Exhibit E)

A question was raised about the title of Math 425, it was suggested we might be more careful about titles since other people outside the University may read them.

2. Recommendation from Academic Affairs Committee for Academic Calendar (Exhibit F)

There was no discussion of this item.

3. Recommendation from Academic Affairs Committee for Reporting of Correspondence Courses on Transcripts (Exhibit G)

Questions and concerns raised: This only covers flexible enrollment courses. How are these designated now? There are two types of distance courses flexible enrollment and semester based video. The reasons listed don’t seem like compelling reasons to get rid of the designation, if I am an employer I would want to know if someone took a course as correspondence because I am not confident as an employer and I am not confident as a professor here that they do provide the same level of education that the classroom provides. Transcripts for transfer students do not designate correspondence courses so we have no way of knowing how many they have taken. Who puts together these courses? The department develops them and assures the quality and the department approves them. Some senators replied that they have never been involved in any type of approval process. Sometimes they are done by the department chair, and sometimes they are put together by a committee within the department. It is the departments responsibility for the academic quality of the courses, it is a different delivery mode but it can be a high quality delivery mode. Faculty should question the department chair about these courses and the quality.
4. Recommendation from Academic Affairs Committee for Elimination of Rule 123 (Exhibit H)

This rule states that no more than 25% of the course taken can be correspondence. If this rule were eliminated there would need to be some kind of comprehensive review of correspondence courses every three years to ensure quality.

Why was there a 25% cap in the first place? Has the rationale for that cap changed and if so why? B. Bitter stated that in searching through the archives for this information it this rule has been in effect for a long time and the rationale was that the one time perception was that correspondence course were not of the same quality as the traditional course.

Concern was raised that we have no quality control in place to ensure that these courses are comparable to what we deliver here. It was pointed out that by distinguishing between courses you are saying we have a cheap one and an expensive one. It is up to faculty to maintain quality control of these courses. Maybe rather than looking at designating or not designating correspondence courses what we should look at is some type of residency requirement.

Flexible enrollment courses are designated at such because students can start at any time and they have a year to complete the course.

5. Recommendation from Academic Affairs Committee for the BA in Criminal Justice Statewide (Exhibit I)

There was no discussion of this item.

This has been reviewed and approved by Budget, Extended University Affairs, Catalog and Library Committees.

6. Recommendation from Graduate Studies Committee for Graduate Major Change Bulletin #4 & 5 (Exhibit J)

There was no discussion of this item.

Constituents’ Concerns.

Concern was raised about the Women’s Center displaying Anti-200 posters because there are restrictions placed on faculty and departments in regard to political statements.

Concern was raised about a rumor that WSU will show a shortfall of over 3 million dollars for this biennium. Is that true? In regard to the outstanding class would the Registrar’s Office be able to give us a distribution of SAT scores both quantitative and verbal.

Concern was raised that there are no formal exit interviews for people leaving WSU so there is only speculation as to why people are leaving. Could the Senate take up the issue of requesting formal exit interviews.

Adjournment.

Meeting adjourned at 4:50 p.m. Thomas Brigham, Executive Secretary