Minutes of the Graduate Council
November 5, 2002
As approved by the Graduate Council, December 3, 2002


Graduate School staff present: J. Guikema, C. Shanklin, D. Woydziak

The meeting was called to order by Dean R.W. Trewyn at 3:35 p.m. in Room 213, Student Union.

1. Opening Remarks.

Ron Trewyn announced the University has lost two faculty members to cancer recently. Charlie Hedgcoth was the Department Head for Biochemistry and Terry Johnson was the Director of the Center for Basic Cancer Research and Professor of Biology.

Congratulations to graduate student recruiters. The deans recently met with a group of graduate students to address their questions and concerns. When asked what factor encouraged them to select K-State, many said that the personal touch and quality communication with the department's graduate program recruiter played a major role. Greg Eiselein from the Department of English and Scott Tollefson from the Department of Political Science names were mentioned and praised highly by the students.

2. Minutes. The minutes of the October 1, 2002 meeting were approved as presented.

3. Graduate School Actions and Announcements
   a. Appointments for Graduate Faculty Membership

<table>
<thead>
<tr>
<th>Name</th>
<th>Department/Program</th>
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</thead>
<tbody>
<tr>
<td>Sunanda Dissanayake</td>
<td>Civil Engineering</td>
</tr>
<tr>
<td>Ike C. Ehie</td>
<td>Management</td>
</tr>
<tr>
<td>Asadollah Esmaeily</td>
<td>Civil Engineering</td>
</tr>
<tr>
<td>J. Steven Smathers</td>
<td>Journalism &amp; Mass Comm</td>
</tr>
</tbody>
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4. Academic Affairs Committee
   a. Jim Guikema announced that the Academic Affairs is working on creating standards and a template for departments to use when creating course descriptions.
b. It was moved and seconded that the following faculty members be approved for Membership. The motion passed.

i. **for MEMBERSHIP ONLY**

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Barret J. Bulmer</td>
<td>Assistant Professor</td>
<td>Clinical Sciences</td>
</tr>
<tr>
<td>Larry C. Hollis</td>
<td>Associate Professor</td>
<td>Animal Sciences and Industry</td>
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ii. **for MEMBERSHIP AND CERTIFICATION**

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<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Balasubramaniam Natarajan</td>
<td>Assistant Professor</td>
<td>Electrical Engineering</td>
</tr>
<tr>
<td>Yoonseong Park</td>
<td>Assistant Professor</td>
<td>Entomology</td>
</tr>
<tr>
<td>Peter H. Pfornm</td>
<td>Associate Professor</td>
<td>Chemical Engineering</td>
</tr>
<tr>
<td>Mary E. Rezac</td>
<td>Associate Professor</td>
<td>Chemical Engineering</td>
</tr>
<tr>
<td>Stefano Vidussi</td>
<td>Assistant Professor</td>
<td>Mathematics</td>
</tr>
<tr>
<td>Ludek Zurek</td>
<td>Assistant Professor</td>
<td>Entomology</td>
</tr>
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c. **Course and curriculum changes:** A motion was made and seconded to approve course changes, deletions, and additions. The motion passed.

i. **CHANGE:**

| MATH 706. Theory of Numbers. | (3) II. Divisibility, congruences, multiplicative functions, number theory from an algebraic viewpoint, quadratic reciprocity, Diophantine equations, prime numbers. Pr.: MATH 221 and either 511 or 512. | MATH 706. Theory of Numbers. | (3) I. Divisibility, congruences, multiplicative functions, number theory from an algebraic viewpoint, quadratic reciprocity, Diophantine equations, prime numbers. Pr.: MATH 221 and either 511 or 512. |


<p>| MATH 722. Analysis II. (3) II. Lebesgue and Riemann-Stieltjes integration on the real line, differentiation on the real line, elementary transcendental functions. Pr.: MATH 721. | MATH 722. Introduction to Functions of Several Variables. (3) II. Analysis of functions of several variables, including differentiability, partial differentiability, maxima and minima, inverse function theorem, implicit function theorem, integration, Fubini's theorem. Pr.: |</p>
<table>
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<tr>
<th>Course Code</th>
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<th>Prerequisites</th>
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<tr>
<td>MATH 821</td>
<td>Real Analysis I</td>
<td>(3) I. Measurability, integration theory, regular Borel measures, the Riesz representation theorem, and Lebesgue measure in Euclidean spaces. Pr.: MATH 722.</td>
</tr>
<tr>
<td>MATH 822</td>
<td>Real Analysis II</td>
<td>(3) I. The Lp-spaces, Banach spaces, and Hilbert spaces, complex measures and the Radon-Nikodym theorem, the Fubini theorem on double integration, and differentiation. Pr.: MATH 821.</td>
</tr>
<tr>
<td>POLSC 642</td>
<td>International Conflict</td>
<td>(3) II. The nature of political conflicts in the world and the &quot;types&quot; of such conflicts. Emphasis is on determining the &quot;causes&quot; of the various conflict types as well as providing the student with a better understanding of the conflict process from political dispute through the escalation stages to war. Pr.: POLSC 333, 541, or junior standing.</td>
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<td>SOCIO 833</td>
<td>Gender Differentiation and Inequality</td>
<td>(3) II, in odd years. Offers an analysis of the social construction and reproduction of gender identities. Focuses on current feminist theory and research on the links between gender identities and gender inequality. Pr: Graduate standing.</td>
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<td>SOCIO 933</td>
<td>Gender &amp; Society</td>
<td>(3) II, in even years. Exploration of feminist theorizing of gender relations in constructing and maintaining social institutions. Objective is to acquaint students with the strengths and weaknesses of</td>
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current theories of gender, and to analyze social structures as both constituting and constitutive of gender relations at the macro/meso level of society. Pr.: SOCIO 841, or consent of instructor.

ii. DROP:

MATH 615. Advanced Engineering Mathematics. (3) I. Vector calculus; higher-dimensional calculus; topics in ordinary differential equations; complex analysis. Pr.: MATH 240 and 551.

MATH 616. Advanced Engineering Mathematics II. (3) II. Fourier series; Fourier and Laplace transforms; basic partial differential equations; basic calculus of variations. Pr.: MATH 240 and 615.


MATH 867. Partial Differential Equations II. (3) II. Continuation of MATH 866. Pr.: MATH 866.

MATH 910. Universal Algebra I. (3) I. Topics include congruences, homomorphisms and isomorphisms, direct and subdirect products, varieties, Birkhoff's theorem, and the Mal'cev conditions. In addition, special topics will be selected from Stone duality, ultra products, Boolean products, and connections with model theory. Pr.: MATH 811.

MATH 911. Universal Algebra II. (3) II. Continuation of MATH 910. Pr.: MATH 910.

MATH 914. Lattice Theory I. (3) I, in alternate years. Posets, quantum logics, orthocomplemented, orthomodular, and Boolean lattices; the concepts of atomicity, completeness, reducibility, modularity, Msymmetry, O-symmetry, distributivity, algebraic coordinatization, and specific realization. Pr.: Consent of instructor.

MATH 915. Lattice Theory II. (3) II, in alternate years. Continuation of MATH 914.

LG 783. Phonology I. (3) Same as LING 783 and ENGL 783.

LG 785. Syntax I. (3) Same as LING 785 and ENGL 785.
LG 796. Theories of Grammar. (3) I, S. Comparative examination of the assumptions, aims, and procedures of four types of English grammar—the normative grammar of Robert Lowth, the historical grammar of Otto Jespersen, the structural grammar of Leonard Bloomfield, and the generative-transformational grammar of Noam Chomsky—and their application. Same as LING 796. Pr.: Junior standing, and ENGL 530 or LING 600.

LING 783. Phonology I. (3) Basic concepts of the theory of language sound systems with particular reference to English but including reference to other languages as well. Pr.: SPCH or ENGL 681 and SPCH, ENGL, or MLANG 780. Same as LG 783.

LING 785. Syntax I. (3) Basic concepts of syntactic theory, with particular reference to English but including reference to the grammatical systems of other languages as well. Pr.: ENGL 530 or SPCH, ENGL, or LG 780. Same as LG 785.

LING 796. Theories of Grammar. (3) I, S. Comparative examination of the assumptions, aims, and procedures of four types of English grammar—the normative grammar of Robert Lowth, the historical grammar of Otto Jespersen, the structural grammar of Leonard Bloomfield, and the generative-transformational grammar of Noam Chomsky—and their application. Same as LG 796. Pr.: Junior standing, and ENGL 530 or LING 600.

(The following courses were dropped due to a college wide clean-up by the College of Arts and Sciences of classes that are no longer being offered. Most no longer appear in the catalog.)

ANTH 736. Applied Agricultural & Rural Change
BIOL 605. Biology of Fungi
BIOL 691. Microbial Genetics Laboratory
BIOL 782. Reservoir Limnology
CHM 710. Chemical Applications of Group Theory
DAS 705. Advanced Seminar in Women's Studies
ECON 891. International Trade Theory and Policy
ENGL 702. The Folk Tale
ENGL 712. Spenser
ENGL 717. Shakespeare/Tragedies and Romances
ENGL 782. Language Typology
ENGL 784. Phonology 2
ENGL 786. Syntax 2
ENGL 787. Advanced Syntax
ENGL 788. Advanced Phonology
ENGL 798. Literature Proseminar
ENGL 898. Master's Report
iii. **NEW:**


**MATH 715. Applied Mathematics I.** (3) I. Topics from vector calculus, higher-dimensional calculus, ordinary differential equations, matrix theory, linear algebra, and complex analysis. Pr.: MATH 222.
MATH 716. Applied Mathematics II. (3) II. Topics from Fourier series, Fourier and Laplace transforms, partial differential equations, calculus of variations and linear algebra. Pr.: MATH 715.

MATH 842. Differential Equations III. (3) II. Continuation of MATH 841. Pr.: MATH 841.

MATH 875. Algebraic Topology. (3) I. Fundamental groups; Seifert-Van Kampen theorem; covering spaces; homology and cohomology: simplicial, singular, cellular, and axiomatic theories; cup products; Betti numbers; Euler characteristic; universal coefficient and Kunneth theorems; Hurewicz theorem in dimension one; orientations of manifolds; degree of maps. Pr.: MATH 701.

MATH 876. Differential Topology. (3) II. Smooth manifolds; smooth maps; smooth partitions of unity; tangent spaces and tangent bundles; derivatives; inverse function theorem and applications; Morse functions; embedding theorems; orientations and orientability via tangent bundles; cotangent and exterior bundles; differential forms; integration on manifolds; vector fields and Lie derivatives; DeRham cohomology and DeRham's theorem. Pr.: MATH 701.

5. Graduate Student Affairs Committee

Greg Eiselein reported that the committee is addressing several issues at this time. The Honor Code work group is working on a survey that they plan to send to faculty. The Electronic Thesis/Dissertation work group is working on collecting information and do not have plans to present information to the Graduate Council this semester. Other issues were discussed and the committee decided no action was required. They include:

- Timeliness of getting back to students on exams

The committee looked at the Graduate Handbook and the policies seem to be effective. This issue does not appear to be a chronic problem, but more of an isolated and sporadic issue.

- Graduate Student Readmissions/Reinstatement

The committee reviewed the current Graduate Handbook policies and they appear to be in-line with many current university practices. An informal survey revealed that there currently is not support for changing the graduate student readmission policies.

- INS rule changes and their impact on graduate students

There has been a drop off in the English Language Program enrollment. There are many new issues regarding the policies of acquiring a Social Security Number, Visas, and the
new international tracking system, SEVIS. The committee plans to discussion this issue more, but currently there seems to be no solutions or policies that can be made to make things easier for international students and campus staff.

At the next meeting the committee plans to begin addressing the issue of financial stress and economic woes of graduate students. If members have input on this issue, they are encouraged to contact Greg prior to the next Graduate Student Affairs meeting.

6. Graduate School Committee on Planning

Tim Bolton announced that the committee is looking into the issue of concurrent bachelor's and master's program. The issue is complex and the committee feels they need to discuss and investigate the issue further. The committee hopes to have information to present to the council next semester.

7. Graduate Student Council Information

Sara Fisher announced that the GSC has set a mission of greater visibility and creating a professional image for the organization to promote graduate student participation. Over the summer they purchased GSC stationary, a computer, established a GSC office in 102 Fairchild and established a graduate student list serve. So far, meeting attendance has increased, over 300 people attended the ice cream social and nearly all of the senator seats are occupied. April 4, 2003 is the date that has been set for the Research Forum. There currently is a committee to create a procedure manual for the council.

8. University Research and Scholarship

Ron Trewyn reported that the University is addressing the effect of grant money moving off campus caused by faculty positions left vacant. They are concerned about the challenge this may create for those that depend on overhead dollars. They addressed the situation by relocating Ted Knous, Associate Vice Provost for Research, to campus full time. (Previously he divided his time between the Office of Sponsored Projects and KSU Research Foundation-KSURF.) Graduate Faculty are encouraged to help fill the void left by Ted at KSURF by bring attention to large interdisciplinary awards.

9. Other business

Al Brightman presented a copy of a research ethics document created by the USDA. It was agreed to consider a KSU draft and to send the list to Academic Affairs for modification.

10. Discussion

Ron Trewyn initiated a discussion on the financial cut's impact on graduate student support and graduate students in general. It was mentioned that the College of Education is considering drastically reducing GTA's next semester. Someone mentioned
the cancelling of low enrollment courses, which tend to be graduate courses or those that undergraduates need for preparation for graduate school. Carol Shanklin announced that Graduate Student Council has voiced concern regarding equity for GTAs or the significant increase in workload for GTAs from Fall to Spring. This seems to be a campus-wide short-term solution to budget cuts. GSC members are concerned about the increased work load affecting their research and the time line they have set for completing their degree. Other concerns mention by the council were the long term impact on undergraduate education and graduate student recruiting challenges for the university.

The question was asked of Ron Trewyn if the University was actively targeting legislators and state decision makers on graduate education. He explained.

11. **Announcements**

Carol Shanklin announced that there is a Meet the Dean event schedule in the Student Union Big 12 Room at 4:00 p.m. on Thursday, November 7th. Please encourage your graduate students to attend.

The next Graduate Council meeting is scheduled for 3:30 p.m. Tuesday, December 3rd.

Council was adjourned at 4:30 p.m.