

Washington State University
MAJOR CURRICULAR CHANGE FORM -- NEW/RESTORE COURSE

- Please attach rationale for your request, a complete syllabus, and explain how this impacts other units on campus and other campuses (if applicable).
- Obtain all required signatures with dates.
- Provide original stapled packet of signed form/rationale statement/syllabus PLUS 10 stapled copies of complete packet to the Registrar's Office, campus mail code 1035.
- Submit one electronic copy of complete packet to wsu.curriculum@wsu.edu.

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 WSU REGISTRAR

Requested Future Effective Date: Fall 2016 (term/year) Course Typically Offered: every semester
DEADLINES: For fall term effective date: **October 1st**; for spring or summer term effective date: **February 1st**. See instructions.
NOTE: Items received after deadlines may be put to the back of the line or forwarded to the following year. Please submit on time.

New Course **Temporary Course** **Restore Course**

Math 593 Seminar in Combinatorics, Linear Algebra, and Number Theory

course subject/crosslist course no. title

1 (1 0) Graduate standing or permission of the instructor

Credit hrs	lecture hrs per week	lab or studio hrs per week	prerequisite

Description for catalog: Current research in combinatorics, linear algebra, and number theory.

- Additional Attributes: Check all that apply.**
- Crosslisting (between WSU departments)* Conjoint listing (400/500): _____
 - Variable credit: _____ Repeat credit (cum. max. hrs): 10
 - Special Grading:** S, F; A, S, F (PEACT only); S, M, F (VET MED only); H, S, F (PHARMACY, PHARDSCI only)
 - Cooperative with UI Other (please list request): _____

- The following items require prior submission to other committees/depts. (SEE INSTRUCTIONS.)**
- Request to meet Writing in the Major [M] requirement (Must have All-University Writing Committee Approval.)
 - Request to meet UCORE in _____ (Must have UCORE Committee Approval >> See instructions.)
 - Special Course Fee _____ (Must submit request to University Receivables.)

Contact: Sandy Cooper Phone number: 335-8652 Campus mail code: 3113
 Email: scooper@math.wsu.edu Instructor, if different: Sheng-Chi Liu

Charles Moore 10/2/15 Producing Sec 11/2/15 _____
 Chair/date Dean/date All-University Writing Com / date

 Chair (if crosslisted/interdisciplinary)* Dean (if crosslisted/interdisciplinary)* UCORE Committee Approval Date

 Catalog Subcommittee Approval Date GSC or AAC Approval Date Faculty Senate Approval Date

***If the proposed change impacts or involves collaboration with other units, use the additional signature lines provided for each impacted unit and college.**

Rationale for Math 593.

For a number of years the Department of Mathematics ran its research seminars under the catalog number Math 600. This fall it was pointed out to us by the Graduate School that this was an inappropriate use of that number and that we needed to establish separate courses for each of our regularly scheduled seminars. We are requesting temporary approval for Spring 2016 and permanent approval for Fall 2016 to offer the Seminar in Combinatorics, Linear Algebra, and Number Theory as Math 593.

Math 593- Seminar in Combinatorics, Linear Algebra, and Number Theory

Instructor: Sheng-Chi Liu

Office: Neill 207

Email: scliu@math.wsu.edu

Phone number: (509)335-8648

Seminar Webpage: <http://www.math.wsu.edu/faculty/scliu/CLaN/seminar/>

Credit: 1 credit, may be repeated for credit; cumulative maximum is 10 credits

Meeting Time and Place: Monday, 4:10 - 5:00 pm; Neill 5W

Office Hours: by appointment or drop by

Prerequisites: Graduate standing or permission of the instructor

Course Description: Math 593 is a seminar course in combinatorics, linear algebra, and number theory. This class is intended to create a forum for faculty and students who are interested in these areas. The main goals are to (1) acquaint students to potential research projects and (2) allow them to practice and receive feedback on their presentation skills.

Student Learning Outcomes: Upon completion of this course, students will be able to discuss current research in combinatorics, linear algebra and number theory (assessed participation in seminar discussions).

Grading Criterion: The course grades (S or F) will be assessed through participation (measured by your presence in class and engagement in discussions). Student presentations are encouraged but not mandatory. The grade of S is earned for participating on a regular basis. Missing more than 3 classes over the course of the semester will normally result in a grade of F.

In preparation for class each week, students should expect at least 2 hours work time outside of class. This work will involve finding and reading the research papers to be discussed that week. When you are the facilitator, plan to spend approximately 6 hours preparing as you will need to locate an article, get it approved, then read it and prepare questions for discussion.

Attendance Policy: Students who register for credit in this course are expected to attend every seminar and be prepared to participate in the discussions.

Academic Integrity: As an institution of higher education, WSU is committed to principles of truth and academic honesty. All members of the University community share the responsibility for maintaining and supporting these principles. To maintain the academic integrity of the community, the University cannot tolerate acts of academic dishonesty including any forms of cheating, plagiarism, or fabrication. WSU reserves the right and the power to discipline or to exclude students who engage in academic dishonesty. For more information about academic integrity, please read through <http://conduct.wsu.edu/>.

WSU Safety Measures: Washington State University is committed to maintaining a safe environment for its faculty, staff, and students. Please visit <http://safetyplan.wsu.edu> and <http://oem.wsu.edu> to access the Campus Safety Plan and emergency information. Also, please visit the WSU Alert Site where information about emergencies and other issues affecting WSU will be found (<http://alert.wsu.edu/>).

Students with Disabilities: Reasonable accommodations are available for students with a documented disability. If you have a disability and need accommodations to fully participate in this class, please either visit or call the Access Center (Washington Building 217; 509-335-3417) to schedule an appointment with an Access Advisor. All accommodations MUST be approved through the Access Center. For more information contact a Disability Specialist (Pullman Campus contact info: AccessCenter@wsu.edu, <http://accesscenter.wsu.edu>).

Weekly Schedule - Fall 2015

Date	Speaker and Title
August 24	Organizational Meeting
August 31	Elissa Schwartz Modeling Infectious Disease Dynamics
September 7	No Seminar (Labor Day)
September 14	Nathan Hamlin
September 21	David Watkins Core-Chasing Algorithms for Eigenvalue Computation
September 28	Thomas Cameron Constructive Proof of Hessenberg Form
October 5	Michael Kasigwa Eventually Cone Positive Semigroups of Linear Operators
October 12	Steven J. Miller (Williams College) From the Manhattan Project to Elliptic Curves
October 19	Ikpyo Kim Pascal Eigenspaces and Invariant Sequences of the First or Second Kind
October 26	Stefan Tohaneanu (University of Idaho) Three classical problems on configuration of points in the real plane
November 2	Jemin Shim
November 9	Jillian Glassett
November 16	Patrick Torres
November 23	No Seminar (Thanksgiving Vacation)
November 30	Tyler Campbell
December 7	Lee West