

Attachment B

Troy University
Routing Slip for New and Revised Academic Programs

Division: Arts & Sciences

Program Proposal/Revision: Mathematics

Initiator: Diane Porter 232 MSCX 3406
Name campus address campus phone

1. Conceptual Approval by TROY Academic Steering Committee (submit for conceptual approval through appropriate Associate Provost)

[Signature] Approved (Initial review) _____ Disapproved Reason: _____

ACHE Action Required: Yes No
SACS Action Required: Yes No

2. Department Chair / School Director Approval (Signature/Date): [Signature] 10/20/06

3. College Curriculum Committee Approval (Signature/Date): [Signature] 11/1/06

4. Dean of the College's Approval (Signature/Date): [Signature] 11/2/06

5. General Studies Committee (for changes to the general studies program only) (Signature/Date): _____

6. Institutional Effectiveness Committee Approval (Signature/Date): A. Poling 11-14-2006

Comments: _____

7. Academic Undergraduate Council or Graduate Council Approval (Initial/Date): _____
(All curriculum changes are to be approved by the appropriate committee.)
Comments: _____

8. Executive Vice Chancellor/ Provost (Signature/Date): _____

9. TROY Academic Steering Committee (Signature/ Date): _____

10. Campus Vice Chancellor (Signature/Date): _____

11. Other Accreditation As Required: _____

12. Chancellor (Signature/date): _____

Return approved package to the office of the dean of the discipline.
Send signed copy to the IRPE Office and appropriate Associate Provost.

Department of
Mathematics,
Physics, Computer
Science &
Geomatics

232 Math and
Science Complex
Troy, Alabama
36082

334-670-3406
334-670-3796 FAX

MEMORANDUM

October 20, 2005

TO: Dr. Don Jeffrey, Interim Dean
College of Arts and Sciences

FROM: Diane Porter, Chair *DP*
Academic Discipline Committee in Mathematics
College of Arts and Sciences

TROY
UNIVERSITY

The Academic Discipline Committee in Mathematics comprised of faculty from Dothan, Montgomery, University College, and Troy has approved the proposed changes for mathematics as outlined in the attached *Justification for New and Revised Programs*.

Troy University
Justification for New and Revised Programs

Program Title: Mathematics

Contact: Diane Porter

1. Purpose of this curriculum addition or modification:

Modify the Area III and Area V mathematics requirements for Mathematics majors as follows:

- Change MTH 1125, Calculus I, as the required (rather than the current “preferred”) math course in Area III
- Remove MTH 1114, Pre-Calculus Trigonometry, and MTH 1125, Calculus I, from the listing of courses in Area V

Background: For mathematics majors, Area III currently requires students to take one course from a list of courses that includes MTH 1125, Calculus I, and pre-requisites, MTH 1112, Pre-Calculus Algebra, MTH 1114, Pre-Calculus Trigonometry, and MTH 1115, Pre-Calculus Algebra and Trigonometry. Calculus I is designated as the *preferred* course. This modification will remove the ambiguity created with the list and makes Calculus I required in Area III rather than *preferred*.

A Calculus I requirement in Area III eliminates the need for listing MTH 1114, Pre-Calculus Trigonometry, and MTH 1125, Calculus I, in Area V. They are currently listed with a note “*if not taken in Area III.*” The inclusion of MTH 1114 in this list requires all students to take this course whether they need it as a pre-requisite to MTH 1125 or not. For many students, this adds a required three hours that is not needed. For students who need to take pre-requisites to MTH 1125, those courses will count as free electives.

2. Relationship of purpose to university purpose.

The proposed change supports the University’s mission of providing “...a variety of educational programs at the undergraduate and graduate levels for a diverse student body in traditional, nontraditional, and emerging electronic formats.” The change will also “promote discovery and exploration of knowledge and its application to life-long success through effective teaching, service, creative partnerships, scholarship, and research.”

3. Expected outcomes/student learning outcomes of the Program. (Define the measurable expected outcomes/student learning outcomes to measure the effectiveness of the program.):

Students will have a reduced number of required hours in general studies on their Academic Evaluations.

4. Assessment instruments/tools/methods/measures.
Academic Evaluations for mathematics majors

5. *Procedures for assessment of expected outcomes/student learning outcomes. (Describe who will be assessed, who will assess, when and where assessment will occur, and how assessment will be accomplished.):*

All mathematics majors will be evaluated through Academic Evaluations. Academic Evaluations are prepared by the Records Office for use by students, faculty and advisors.

6. *Persons responsible for assessment (Include who will provide assessment results, maintain a database of results, analyze the results, formulate plans for improvement – PFI as needed, implement PFI, and provide evident of achievement of PFI and expected outcomes/student learning outcomes.):*

The Records Office will provide assessment results. Academic advisors will use the results of the assessment to determine courses needed by students. The persons designated to analyze the results of the assessment instruments and be responsible for implementing any plan for improvement are the Chairs of the three Mathematics Departments, Associate Deans of the College of Arts and Sciences, and the Dean of the College of Arts and Sciences.

7. *How will faculty/staff be made available to meet the needs of this curriculum addition or modification?*

No change needed by faculty/staff

8. *What additional resources (library materials, lab equipment, etc.) will be required to meet the needs of this curriculum addition/modification?*

None

9. *Estimated cost to the university:*

No additional costs to the university

10. *This program addition or revision will be required of students in the following majors, minors or programs:*

Mathematics majors

12. *Number of students currently enrolled in these majors, minors or programs:*

The total number of mathematics majors is approximately 90.

13. *Total FTE in the affected department(s):*

14. Analysis of credit hour production in this department(s):

13. Analysis of credit hour production in this department:

Mathematics	Fall Semester 2005		Spring Semester 2006		Summer Semester 2006		AY 2005-2006	
	CHP	% Analysis	CHP	% Analysis	CHP	% Analysis	CHP	% Analysis
Undergraduate								
Remedial	3,561	33.31%	3,795	36.05%	1,362	31.71%	8,718	34.22%
General Studies	4,755	44.48%	4,524	42.73%	2,025	46.62%	11,304	44.12%
Other Lower Division	1,818	17.01%	1,724	16.28%	782	18.00%	4,324	16.88%
Upper Division	522	4.88%	485	4.58%	126	2.90%	1,133	4.42%
Total	10,656	99.69%	10,528	99.43%	4,295	98.87%	25,479	99.45%
Graduate	33	0.31%	60	0.57%	49	1.13%	142	0.55%
Mathematics Total	10,689	100.00%	10,588	100.00%	4,344	100.00%	25,621	100.00%

15. Relevant course syllabi (attach; see the faculty handbook for details regarding requirements for course syllabi):