MATHEMATICS ACADEMIC MAP: DEGREE BS (120 CREDIT HOURS)

This degree map is a semester-by-semester course schedule for students majoring in Mathematics. The milestones listed to the right of each semester are designed to keep a student on track to graduate in four years. The schedule serves as a general guideline to help build a full schedule each semester. Milestones are courses and special requirements necessary for timely progress to complete a major. When one or more milestones are missed, students should consult with an academic advisor to determine if another degree path would be more suitable.

The basic curriculum in mathematics affords the students sufficient time to explore several areas related to mathematics. Because this is very long list of opportunities the department keeps an up to date folder on the current job market and graduate opportunities. Our majors are monitored on a semester basis. By the end of the 2nd year each major will have a plan that maps out the major course schedule as well as a potential plan for a career path.

Tennessee State University recognizes that students have diverse learning, life, and professional experiences. The University provides opportunities for students to earn college credit toward the degree through a number of assessment options that evaluate their learning experiences. These paths are grouped under the category "Prior Learning Assessment" (PLA). Various means of earning PLA credit at TSU are the following: Advance Placement Program, American Council of Education (ACE) Military Credit, American Council on Education (ACE) other Assessed Credit, College Level Exam Program (CLEP), DSST Credit by Examination Program (includes DANTES Examination), Institutional Course Challenge Exams (Departmental Exams), International Baccalaureate Credit, Other Military Service, Portfolio Assessment. To learn more about PLA contact your academic advisor or the Office of Student Support Services for Adult and Distance Learners (615) 963-7001.

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Fall Schedule		Milestones
Semester 1	**Hrs.**	**Semester 1**
ENGL 1010	3	Minimum grade of "C" required
MATH 1910	4	MATH 1710 and/or MATH 1720 must be taken prior to MATH 1910 if the need is indicated; Pre-requisite course: Must be taken before MATH 1920 and ECON 2010; Minimum grade of "C" required
COMM 2200	3	
COMP 3200 (will be changed to a 1000 level course)	3	Minimum grade of "C" required
UNIV 1000	1	
Total hours	**14**	

Spring Schedule		Milestones
Semester 2	**Hrs.**	**Semester 2**
ENGL 1020	3	Minimum grade of "C" required
MATH 1920	4	Pre-requisite course: Must be taken before MATH 2500, 3610, 2110, 3510, 3640, 3810; Minimum grade of "C" required
MATH 3130	3	Minimum grade of "C" required
STAT 1530 or MATH 1530	3	Minimum grade of "C" required
RA Elective**	3	
Total hours	**16**	

**It is strongly recommended that the student include related areas (RA's) of interest in the program of study; suggested RA's include pre-medicine, pre-law, computer science, philosophy, actuarial science, political science; it is further suggested that a student select a lower level (1000-2000) elective during this semester.

Fall Schedule		Milestones
Semester 3	**Hrs.**	**Semester 3**
HIST 2050	3	
PHYS 2110, 2111	4	Pre-requisite course: Must be taken before PHYS 2120, 2121
MATH 2500	1	Pre-requisite course: Must be taken before MATH 3620, 3500; Minimum grade of "C" required
MATH 3610	3	Pre-requisite course: Must be taken before MATH 3620; Minimum grade of "C" required
MATH 2110	4	Pre-requisite course: Must be taken before MATH 4410; Minimum grade of "C" required
Total hours	**15**	

*The Department recommends HIST 2050; however, HIST 2010, HIST 2020, HIST 2030, HIST 2060 or HIST 2700 satisfy this requirement.

Spring Schedule		Milestones
Semester 4	**Hrs.**	**Semester 4**
HIST 2060*	3	
PHYS 2120, 2121	4	
MATH 3620	3	Minimum grade of "C" required
MATH 3510	3	Pre-requisite course: Must be taken before MATH 4410; Minimum grade of "C" required
ENGL 2110**	3	
Total hours	**16**	

*The Department recommends HIST 2060; however, HIST 2010, HIST 2020, HIST 2030, HIST 2050 or HIST 2700 satisfy this requirement.
*Courses within the range of ENGL 2012-2013 will meet this requirement

Fall Schedule		Milestones
Semester 5	**Hrs.**	**Semester 5**
MATH 3500	1	Minimum grade of "C" required
MATH 4410	3	Minimum grade of "C" required
ECON 2010	3	Pre-requisite course: Must be taken before ECON 2020
RA Electives – Any Level*	7	
Total hours	**14**	

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Spring Schedule		Milestones
Semester 6	**Hrs.**	**Semester 6**
MATH 4420	3	Minimum grade of "C" required
MATH 3640	3	Minimum grade of "C" required
Humanities Elective**	3	
RA upper level (3000-4000) Elective	3	
ECON 2020	3	
Total hours	**15**	

*Students must take a 3 credit hour course from the following list of approved general education Humanities courses: AREN 2310, ART1010, THTR 1020, MUSC 1010, PHIL 1030, HIST 1000 or RELS2010.
**It is strongly recommended that the student include related areas (RA's) of interest in the program of study; suggested RA's include pre-medicine, pre-law, computer science, philosophy.

Fall Schedule		Milestones
Semester 7	**Hrs.**	**Semester 7**
MATH 4500	3	Senior Standing is a pre-requisite for this course; Minimum grade of "C" required
MATH 3810	3	Minimum grade of "C" required
COMP 3000	3	
Humanities Elective*	3	
RA upper level (3000-4000) Elective**	3	
Total hours	**15**	

*Students must take a 3 credit hour course from the following list of approved general education Humanities courses: AREN 2310, ART1010, THTR 1020, MUSC 1010, PHIL 1030, HIST 1000 or RELS2010.

**It is strongly recommended that the student include related areas (RA's) of interest in the program of study; suggested RA's include pre-medicine, pre-law, computer science, philosophy.

Spring Schedule		Milestones
Semester 8	**Hrs.**	**Semester 8**
		Take Senior Exit Exam and Apply for Graduation
RA upper level (3000-4000) Electives	6	
MATH upper level (3000-4000) Elective	3	
Any upper level (3000-4000) Electives	6	
Total hours	**15**	

**It is strongly recommended that the student include related areas (RA's) of interest in the program of study; suggested RA's include pre-medicine, pre-law, computer science, philosophy.

Employment Information:
The Mathematics Program is designed to enable graduates to be employed by any of a number of private industries, government agencies, foundations, and institutions requiring high-level quantitative skills and a highly developed ability to think critically and logically; and (2) to provide training to enable graduates to enter graduate school in mathematics or related areas.

Representative Job Titles Related to this Major:
Instructor, Editor, Economist, Stockbroker, Insurance Underwriter, Statistician, Actuary, Operations Research Analysis, Pharmaceutical Manufacturer

Representative Employers:
Insurance Companies, Aviation Companies, Federal Government, Consulting Groups, Community Colleges/Universities, Financial Services, Engineering Research Organizations

International study is available for all TSU students and may include opportunities for internships or taking course work towards various minors. International study may have an impact on the MAP; therefore, it is important to consult with the academic advisor for this major before participating in an international Program opportunity. Students interested in study abroad opportunities should contact the Office of International Programs and consult with their academic advisor.

This map is not intended to be a contract; either expressed or implied, between the University and the students, but represents a flexible program of the current curriculum which may be altered from time to time to carry out the academic objectives of the University. TSU specifically reserves the right to change, delete or add to any MAP at any time within the student's period of study at the University.
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