

**UTSA Bachelor of Science in Mathematics - GMS concentration**  
**Four-Year Plan**                      **without Teacher Certification**  
**2010-12**                                      **starting with MAT 1093**

<b>FIRST YR</b>			<b>FALL</b>			<b>SPRING</b>		
MAT 1093	Precalculus	3	MAT 1214	Calculus I	4	MAT 1214	Calculus I	4
WRC 1013	Freshman Composition I	3	WRC 1023	Freshman Composition II	3	WRC 1023	Freshman Composition II	3
COM 1043	Intro to Communications	3	CS 1063 or	Intro to Comp Program	3	CS 1063 or	Intro to Comp Program	3
CORE	Domain I: Science Level I	3	CS 2073	Comp Prog w/ EGR Apps		CS 2073	Comp Prog w/ EGR Apps	
CORE	Domain IIA: History	3	CORE	Domain IIA: History	3	CORE	Domain IIA: History	3
			ELEC	Free Elective	3	ELEC	Free Elective	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>16</b>
<b>SECOND YR</b>								
MAT 1224	Calculus II	4	MAT 2214	Calculus III	4	MAT 2214	Calculus III	4
MAT 3013	Foundations of Math***	3	MAT 2233	Linear Algebra	3	MAT 2233	Linear Algebra	3
CORE	Domain I: Science Level II	3	MAT 3213	Foundations of Analysis***	3	MAT 3213	Foundations of Analysis***	3
POL 1013	Domain IIB: Politics	3	CORE	Domain IIIA: Literature	3	CORE	Domain IIIA: Literature	3
ELEC	Free Elective	3	ELEC	Free Elective	3	ELEC	Free Elective	3
<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>16</b>	<b>TOTAL</b>		<b>16</b>
<b>THIRD YR</b>								
MAT 3123 or	Fundamentals of Geometry^^	3	MAT 3233 or	Modern Algebra*** OR	3	MAT 3233 or	Modern Algebra*** OR	3
MAT 4263	OR Geometry*		MAT 4233	Modern Abstract Algebra*		MAT 4233	Modern Abstract Algebra*	
MAT 3103	Data Analysis/Interpretation^^	3	ELEC 3XX3	UD Free Elective	3	ELEC 3XX3	UD Free Elective	3
MAT 4213	Real Analysis I**	3	ELEC	Free Elective	3	ELEC	Free Elective	3
CORE	Domain IIC: Soc/Beh Science	3	CORE	Domain IID: Economics	3	CORE	Domain IID: Economics	3
ELEC	Free Elective	3	CORE	Domain IIB: Politics	3	CORE	Domain IIB: Politics	3
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>
<b>FOURTH YR</b>								
MAT 4013	Graphing Calculator Topics^^	3	MAT 4113	Computer Math Topics^^	3	MAT 4113	Computer Math Topics^^	3
MAT 4303	Capstone Course for Math#	3	CORE	Domain IV: World Society	3	CORE	Domain IV: World Society	3
MAT 3XX3	UD Math Elective (not 3253)	3	CORE	Domain IIIB: Arts	3	CORE	Domain IIIB: Arts	3
ELEC	Free Elective	3	ELEC	Free Elective	3	ELEC	Free Elective	3
ELEC	Free Elective	3						
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>12</b>	<b>TOTAL</b>		<b>12</b>

Total hrs for BS/MATH-GMS WITHOUT Certification is 120, including 39 at UD level.

Total hrs listed here: 120

Notes: Check the 2010-12 catalog for course prerequisites.

\*offered spring only

\*\*\*offered spring, fall and summer

\*\*offered in fall and spring

^offered in summer and fall only

^^offered in spring and summer

^^offered fall only

# scheduled to be offered in fall but subject to change

All required and elective MAT courses must be completed with a grade of "C" or better.

Students seeking secondary certification should see a CoEHD advisors during their sophomore year.

Some UD MAT courses (3000-4000) are offered only once a year. Check with Math Dept for scheduling.

Only one (non-transfer) MAT sub per student is permitted: only in semester of graduation & only if

required course is not offered.

All other provision of the catalog must be met.