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## Planning Sheet: MATHEMATICAL ECONOMICS

(Effective Fall 2012. This major consists of 15 courses)

### Economics Core Requirements

Term	Grade	Course #	AugCore	Title
_____	_____	ECO 112	SBS	Principles of Macroeconomics (Prereq: MPG 3)
_____	_____	ECO 113	SBS	Principles of Microeconomics (Prereq: MPG 3)
_____	_____	ECO 312		Intermediate Macroeconomics (Prereq: ENL 111, 112 or HON 111 and ECO 112)
_____	_____	ECO 313		Intermediate Microeconomics (Prereq: Pass CT assessment or GST 100 and ECO 113)
_____	_____	ECO 416		Mathematical Economics (Prereq: ECO 312, ECO 313, and MAT 145)
_____	_____	ECO 490	KC	Research Methods in Econometrics (Prereq: ECO 112 and ECO 113, ENL 111 or 112 or HON 111 and MPG 3)

**Economics Elective Requirements:** Select and complete Two (2) Upper Division (300-400 level) electives.

_____	_____	<u>ECO</u>	ECO Elective: _____
_____	_____	<u>ECO</u>	ECO Elective: _____

### Mathematics Core Requirements

_____	_____	MAT 145	NSM-non lab	Calculus I (Prereq: MPG 4)
_____	_____	MAT 146		Calculus II (Prereq: MAT 145)
_____	_____	MAT 245		Calculus III (Prereq: MAT 146)
_____	_____	MAT 246		Linear Algebra (Prereq: MAT 245 or 271)
_____	_____	MAT 373		Probability and Statistics I (Prereq: MAT 245; MAT 271 is recommended)
_____	_____	MAT 374		Probability and Statistics II (Prereq: MAT 373, ENL 111 or 112 or HON 111, and COM 111 or 115 or MAT 201 or HON 130)

Select and complete one (1) of the following courses:

_____	_____	MAT 324	<input type="checkbox"/> Analysis (Prereq: MAT 146, MAT 271, ENL 111 or 112 or HON 111, and COM 111 or 115 or MAT 201 or HON 130)
_____	_____	MAT 369	<input type="checkbox"/> Modeling & Differential Equations in Biology and Natural Sciences (Prereq: MAT 245, ENL 111 or 112 or HON 111, and COM 111 or 115 or MAT 201 or HON 130)
_____	_____	MAT 377	<input type="checkbox"/> Operations Research (Prereq: MAT 246, ENL 111 or 112 or HON 111, and COM 111 or 115 or MAT 201 or HON 130)

### Recommended Supporting Courses

_____	_____	CSC 160	Introduction to Computer Science & Communication (Prereq: MPG 3)
_____	_____	CSC 170	Introduction to Programming (Prereq: Pass CT assess. or GST 100, MPG 3, & CSC 160; MAT 171 recommended)

### Notes:

- **Keystone:** ECO 490 will satisfy the senior Keystone requirement.
- **Abbreviation Key:** ML = Modern Language; SC = Signature Curriculum; EM = Engaging Minneapolis; AE = Augsburg Experience; KC = Senior Keystone Course; NSM = Natural Science & Mathematics - no lab; NSM-L = Natural Science & Mathematics-with lab; SBS = Social & Behavioral Science; FA = Fine Arts; HUM = Humanities; QA = Quantitative Applications; QF = Quantitative Foundations; QFA = Quantitative Foundations & Applications.

**See back for information on graduation skills requirements**

## Planning Sheet: GRADUATION SKILLS REQUIREMENTS

These requirements were implemented for Fall 2008. Please talk with your faculty advisor for information.

**Graduation skills, including the Quantitative Reasoning requirements, are completed as follows.** Graduation skills in Critical Thinking, Writing, Speaking, and Quantitative Reasoning are required for graduation. Critical Thinking is embedded in all majors. Plans for completion of other graduation skills are determined by the major department. Consult your department chair or faculty advisor to select appropriate courses to meet the Quantitative Reasoning (QR) graduation skill. QR is satisfied by completing one (1) Quantitative Foundational course (QF) and one (1) Quantitative Application course (QA), or one (1) combined QFA course. The most current information on Graduation Skills can be found in the Augsburg College catalog at [www.augsburg.edu/catalog/](http://www.augsburg.edu/catalog/).

**Transfer students must consult an advisor about potential adjustments to their course requirements to fulfill each graduation skill.**

Embedded in major	<b>Writing Requirements</b> TWO (2) Writing courses		
Embedded in major			
Embedded in major	<b>Speaking</b> One (1) Speaking course		
Designated Major Course	<b>QUANTITATIVE REASONING</b>		Completed
N/A	<b>Quantitative Foundations &amp; Applications</b> One (1) QFA course (Prereq: MPG3)	QFA course	
- OR -			
Embedded in major	<b>Quantitative Foundations and Quantitative Applications</b> One (1) QF course (Prereq: MPG 3) <u>and</u> one (1) QA course	QF course	
Embedded in major		QA course	

## Graduation Tally Checklist

These requirements were implemented in April 2003 and remain in effect until further notice.

Requirement	Progress Towards Completion	
<b>Cumulative Course Credits</b> <ul style="list-style-type: none"> <li>▪ Minimum number of course credits needed for graduation = 32</li> <li>▪ At least 8 credits completed at Augsburg.</li> <li>▪ 6 of last 8 credits completed in residence.</li> <li>▪ Second degree – minimum of 8 credits completed in residence.</li> </ul>	Transfer Credits Earned	
	+ Aug. Credits Earned	
	= Total Credits Earned	
	# Credits Needed	
<b>Grade Point Average (GPA)</b> <ul style="list-style-type: none"> <li>▪ Minimum 2.0 GPA required in major, minor, &amp; overall.</li> <li>▪ Some majors require higher GPA.</li> <li>▪ Latin Honors GPA requirements:                             <ul style="list-style-type: none"> <li>○ Summa cum laude: 3.9-4.0</li> <li>○ Magna cum laude: 3.80-3.89</li> <li>○ Cum laude: 3.60-3.79</li> </ul> </li> </ul>	Cumulative GPA	
	Major 1 GPA	
	Major 2 GPA	
	Minor GPA	
<b>Other Limits</b>	<b>Minimum/Maximum</b>	<b>Your Total</b>
<b>Overall maximum courses graded Pass/No Pass (P/N)</b> <ul style="list-style-type: none"> <li>▪ Grade of 2.0 or above required to Pass and earn credit for course.</li> <li>▪ Maximum of 2 of 6 credits P/N may be in major.</li> </ul>	Maximum of 6	
<b>Major Courses graded Pass/No Pass (P/N)</b>	Maximum of 2	
<b>Latin Honors courses graded Pass/No Pass (P/N)</b>	Maximum of 2	
<b>Latin Honors traditionally graded courses</b>	Minimum of 14	
<b>Internships</b>	Maximum of 4	
<b>Independent/Directed Studies</b>	Maximum of 2	