

## Curriculum Map Economics Major Required Courses

Course	Goals	Course Objectives	Major Content Area
EC201	<p>Knowledge</p> <p>Skills</p>	<ul style="list-style-type: none"> <li>• Understand the principle of economic theory</li> <li>• Apply microeconomic analysis to business decisions</li> <li>• Apply microeconomic analysis to government policies</li> <li>• Apply microeconomic analysis to real world economics issues</li> </ul>	<ul style="list-style-type: none"> <li>• Opportunity costs</li> <li>• Trade-offs</li> <li>• Supply</li> <li>• Demand</li> <li>• Equilibrium</li> <li>• Elasticity</li> <li>• Externalities</li> <li>• Profit Maximization</li> <li>• Market Structure</li> <li>• Labor Markets</li> <li>• Trade</li> </ul>
EC202	<p>Knowledge</p> <p>Skills</p> <p>Ability</p>	<ul style="list-style-type: none"> <li>• Understand macroeconomic theories and concepts</li> <li>• Differentiate between monetary and fiscal policies</li> <li>• Apply macroeconomic models to economic events</li> <li>• Analyze the domestic impact of economic events</li> <li>• Analyze the global impact of economic events</li> <li>• Evaluate impacts of domestic economic policies</li> </ul>	<ul style="list-style-type: none"> <li>• Gross Domestic Product</li> <li>• Real income</li> <li>• Nominal income</li> <li>• Cost of living</li> <li>• Productivity and Growth</li> <li>• Savings and Investment</li> <li>• Unemployment</li> <li>• Monetary Policy</li> <li>• Inflation</li> <li>• Open Economy Models</li> <li>• Exchange Rates</li> <li>• Aggregate Supply</li> <li>• Aggregate Demand</li> </ul>
EC207	<p>Knowledge</p> <p>Skills / Ability</p>	<ul style="list-style-type: none"> <li>• Knowledge of data types</li> <li>• Understand probability concepts</li> <li>• Distinguish between discrete and continuous random variables</li> <li>• Understand sampling distributions</li> <li>• Summarize and display data</li> </ul>	<ul style="list-style-type: none"> <li>• Data Types</li> <li>• Measurement scales</li> <li>• Measure of control tendency</li> <li>• Measures of dispersion</li> <li>• Probability concepts</li> <li>• Intersections/unions/conditionals</li> <li>• Random variables</li> <li>• Expected values</li> <li>• Discrete probability distributions</li> <li>• Continuous density functions</li> <li>• Sampling distributions</li> <li>• Point and interval estimation</li> </ul>

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EC207 (cont.)	Skills / Ability (cont.)	<ul style="list-style-type: none"> <li>• Calculate and interpret measures of central tendency and dispersion</li> <li>• Apply probability concepts to real world situations</li> <li>• Recognize appropriate probability distributions</li> <li>• Calculate event probabilities for discrete and continuous distributions</li> <li>• Apply sampling distributions to real world situations</li> <li>• Construct confidence intervals</li> </ul>	
EC208	<p>Knowledge</p> <p>Skills / Ability</p>	<ul style="list-style-type: none"> <li>• Knowledge of hypothesis testing</li> <li>• Understand appropriate tests for one or more populations</li> <li>• Understand appropriate tests for categorical and quantitative data</li> <li>• Knowledge of cross-section and time-series data</li> <li>• Conduct hypothesis tests</li> <li>• Interpret hypothesis tests</li> <li>• Interpret confidence intervals</li> <li>• Forecast using regression models</li> <li>• Interpret computer outputs</li> <li>• Use computer software to analyze multivariate data</li> </ul>	<ul style="list-style-type: none"> <li>• Basic hypothesis testing</li> <li>• Tests of 1 population mean</li> <li>• Tests of 1 population proportion</li> <li>• Chi Squared Distribution</li> <li>• GOF tests</li> <li>• Tests of independence</li> <li>• Tests of two or more means</li> <li>• ANOVA</li> <li>• Bivariate relationships</li> <li>• Simple regression</li> <li>• Linear correlation</li> <li>• Multiple regression</li> <li>• Global tests</li> <li>• Local tests</li> <li>• Dummy variables</li> <li>• Residual analysis</li> <li>• Time series analysis</li> <li>• Trend models</li> <li>• Seasonality</li> </ul>
EC301	Knowledge	<ul style="list-style-type: none"> <li>• Understand microeconomic principles</li> <li>• Knowledge of microeconomic theory</li> </ul>	<ul style="list-style-type: none"> <li>• Markets</li> <li>• Supply</li> <li>• Demand</li> </ul>

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EC301 (cont.)	Skills / Ability Skills / Ability (cont.)	<ul style="list-style-type: none"> <li>• Understand constrained optimization</li> <li>• Knowledge of market structures</li> <li>• Knowledge</li> <li>• Apply microeconomic theory to consumer behavior</li> <li>• Apply microeconomic theory to managerial decisions</li> <li>• Analyze government policies using microeconomic theories</li> <li>• Analyze real world economic issues using microeconomic theories</li> </ul>	<ul style="list-style-type: none"> <li>• Role of prices</li> <li>• Utility maximization</li> <li>• Consumer behavior</li> <li>• Elasticities</li> <li>• Profit maximization</li> <li>• Production functions</li> <li>• Cost minimization</li> <li>• Market structures</li> <li>• Pricing policies</li> <li>• Game theory</li> <li>• Factor markets</li> <li>• Derived demand</li> </ul>
EC302	Knowledge  Skills / Ability	<ul style="list-style-type: none"> <li>• Understand domestic macroeconomic concepts</li> <li>• Understand global economic concepts</li> <li>• Understanding of open economy macroeconomic models</li> <li>• Understanding of financial institutions</li> <li>• Understand exchange rate determination</li> <li>• Apply macroeconomic theories</li> <li>• Analyze the impacts of events in a domestic context</li> <li>• Analyze the impacts of events in a global context</li> <li>• Analyze forces that influence interest rates</li> <li>• Analyze forces that influence exchange rates</li> </ul>	<ul style="list-style-type: none"> <li>• National income determination</li> <li>• Components of GDP</li> <li>• Role of productivity</li> <li>• Real and nominal income</li> <li>• Saving and investment</li> <li>• Unemployment</li> <li>• Fiscal policy</li> <li>• Monetary policy</li> <li>• Inflation</li> <li>• Open economy macroeconomics</li> <li>• Exchange rate determination</li> <li>• Capital inflows and outflows</li> <li>• Aggregate supply</li> <li>• Aggregate demand</li> <li>• Public debt</li> <li>• Business cycles</li> </ul>
EC499	Knowledge	<ul style="list-style-type: none"> <li>• Identify appropriate type of analysis,</li> </ul>	<ul style="list-style-type: none"> <li>• Macroeconomic theory</li> </ul>

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EC499 (cont.)	<p>Skills / Ability</p> <p>Skills / Ability (cont.)</p>	<p>microeconomic or macroeconomic</p> <ul style="list-style-type: none"> <li>• Assemble appropriate information</li> <li>• Apply appropriate information</li> <li>• Analyze data/information to justify an informed conclusion</li> <li>• Deliver an oral presentation incorporating economic analysis</li> <li>• Create a written economic analysis</li> </ul>	<ul style="list-style-type: none"> <li>• Microeconomic theory</li> <li>• Field specific theoretical application</li> <li>• Integration of content from foundation and core courses</li> </ul>