### Applied Economics Requirements

**6 credits**

- **Environmental, Energy, and Resource Economics**
  - AEM 2500: Environmental & Resource Economics (F)
  - AEM 4500: Resource Economics (S)
  - AEM 4510: Environmental Economics (S)

- **Economic Analysis**
  - AEM 3310: Introduction to Business Regulation (S)
  - AEM 4140: Behavioral Economics & Managerial Decisions (F)
  - AEM 4160: Strategic Pricing (S)
  - AEM 4550: Economics of Advertising (S)
  - AEM 4580: The Economics & Psych. of Sustainable Business (F)

- **International Trade and Development**
  - AEM 2300: International Trade and Finance (S)
  - AEM 2350: Introduction to the Economics of Development (F)
  - AEM 4300: International Trade Policy (S)
  - AEM 4350: The Political Economy of the WTO (S)
  - AEM 4420: Emerging Markets (F)
  - AEM 4450: Food Policy for Developing Countries (F)
  - AEM 4485: Economics of Food & Malnutrition (S)
  - AEM 4545: International Finance & Macroeconomics (F)

- **Food and Agricultural Economics**
  - AEM 4070: Advanced Financial Analytics with Applications in Agriculture & Development (S)
  - AEM 4150: Price Analysis (F)
  - AEM 4210: Derivatives & Risk Management (S)
  - AEM 4310: Agricultural & Food Policy (S)

**Concentration** *(details on the reverse)*

- Min. 15 credits

**Electives**

Total number of electives will vary (AP, transfer, study abroad, minor, internship, other on-campus coursework - No PE)

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### Applied Economics and Management Core Requirements

<table>
<thead>
<tr>
<th>Management</th>
<th>Social Sciences &amp; Humanities</th>
<th>Quantitative Methods</th>
<th>Concentration</th>
<th>Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>AEM 2200: Business Mgt. and Org. (F, 4cr.)</td>
<td>Economics (SBA) - 6 credits</td>
<td>AEM 2100: Intro. Statistics (F, 4 cr.)</td>
<td>(details on the reverse)</td>
<td>Total number of electives will vary (AP, transfer, study abroad, minor, internship, other on-campus coursework - No PE)</td>
</tr>
<tr>
<td>AEM 2225: Financial Accounting for Dyson (F, 4cr.)</td>
<td>ECON 1110, ECON 1120</td>
<td>MATH 1106: Calculus for the Life &amp; Social Sciences OR MATH 1110: Calculus</td>
<td>AEM 3030: Explorations in Analytic Modeling (F, 1.5cr.)</td>
<td>AEM 3100: Business Statistics (S)</td>
</tr>
<tr>
<td>AEM 2420: Marketing (S, 4cr.)</td>
<td>Human Diversity (D)</td>
<td>AEM 3100: Business Statistics (S)</td>
<td>AEM 3190: Research Methods in Internatl’l Dev. (S)</td>
<td>BTRY/ILRST/STSCI 3080: Prob. Models &amp; Inference (B, 4cr.)</td>
</tr>
<tr>
<td>AEM 2240: Finance (S, 4cr.)</td>
<td>One course from one of the following categories: Cultural Analysis (CA), Moral Reasoning (KCM), Historical Analysis (HA), Knowledge, Cognition, &amp; Literature &amp; the Arts (LA), Foreign Language (FL)</td>
<td>AEM 4100: Introduction to Econometrics (F)</td>
<td>AEM 4120: Computational Methods for Mgt. and Econ. (F)</td>
<td>CS 1110: Introduction to Computing using Python (B, 4cr.)</td>
</tr>
<tr>
<td>AEM 3200: Business Law I* (F)</td>
<td>Written and Oral Expression</td>
<td>AEM 4190: Strategic Thinking (S)</td>
<td>AEM 4190: Strategic Thinking (S)</td>
<td>CS 1112: Intro to Computing using MATLAB (B, 4cr.)</td>
</tr>
<tr>
<td>AEM 3230: Managerial Accounting* (B)</td>
<td>Written Expression (one First-year Writing Seminar, FWS is required)</td>
<td>AEM 4100: Introduction to Econometrics (F)</td>
<td>AEM 4120: Computational Methods for Mgt. and Econ. (F)</td>
<td>ECON 3130: Statistics &amp; Probability (F, 4 cr.)</td>
</tr>
<tr>
<td>AEM 3200 and AEM 3230 are optional for the following 3 concentrations: Applied Economics; Environmental, Energy, and Resource Economics; International Trade and Development</td>
<td>AEM 2700: Management Communication (B)</td>
<td>AEM 4190: Strategic Thinking (S)</td>
<td>AEM 4190: Strategic Thinking (S)</td>
<td>ECON 3140: Econometrics (S, 4cr.)</td>
</tr>
</tbody>
</table>

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Students are ultimately responsible for their academic decisions, and adhering to the policies and procedures of SC Johnson College of Business and the CALS.

All students are required to complete: 55 CALS credits *(AEM courses count)* and 120 total credits to graduate.
Concentrations

Students must choose at least one of the following 11 concentrations, and may choose no more than two.

Note: No more than one course may fulfill the elective credits of two concentrations. Courses used to fulfill a core Applied Economics or Quantitative Methods requirement cannot also be counted towards a concentration requirement unless that concentration is EERE.

Accounting
AEM 3360: Intermediate Accounting I
AEM 3370: Intermediate Accounting II (4 cr.)

At least 9 elective credits from the following:
AEM 3520: Financial Statements Analysis
AEM 4225: Systems & Analytics in Accounting
AEM 4520: Advanced Accounting
AEM 4521: Cost Accounting
AEM 4530: Auditing & Assurance
AEM 4531: Federal Income Taxation
AEM 4560: Federal Income Taxation of Business Entitles, Estates, & Trusts
NBA 5020: Managerial Accounting & Reporting
NBA 5090: Adv. Financial Statement Analysis (1.5 cr.)
NBA 5110: Financial Modeling (1.5 cr.)

Agribusiness Management
AEM 3020: Farm Business Management (4 cr.)
Human Resource Management: HADM 2810 or ILHR 2600

At least 9 elective credits from the following:
AEM 2230: Cooperative Management
AEM 3040: Dairy Markets & Policy Seminar (2 cr.)
AEM 3290: International Agribusiness Study Trip (2 cr.)
AEM 4030: Farm Management Study Trip (1 cr.)
AEM 4040: Credit and Banking in Agriculture
AEM 4070: Advanced Financial Analytics
AEM 4150: Price Analysis
AEM 4210: Derivatives & Risk Management
AEM 4310: Agricultural & Food Policy
AEM 4510: Environmental Economics
AEM 4560: Federal Income Taxation of Business Entitles, Estates, & Trusts

Applied Economics
ECON 3040: Intermediate Macroeconomic Theory (4 cr.)
Note: ECON 3040 can replace ECON 1120 & ECON 3040 (can replace 3040 with a grade of B or better)
At least 12 credits listed under Applied Economics Requirements*
At least 3 credits listed under Quantitative Methods Requirements*
*Must be courses that have not already been used to fulfill the AEM Core Requirements

MATH 1120 is strongly recommended, especially as preparation for graduate work in economics.

Business Analytics
Must take one of the following:
AEM 3100: Business Statistics
AEM 4110: Introduction to Econometrics

Must take one of the following:
CS 1110: Introduction to Computing Using Python
CS 1112: Introduction to Computing Using MATLAB
HADM 4760: Visual Basic for Applications
CS 1142: Introduction to MATLAB

Must take one of the following:
HADM 3740: Fundamentals of Database Management & Data Analysis
PLSCS 4200: Geographic Information Systems

At least 6 elective credits from the following:
AEM 2770: Excursions in Computational Sustainability
AEM 3030: Explorations in Analytical Modeling (1.5 cr.)
AEM 4010: Organizational Analytics (1.5 cr.)
AEM 4015: Customer Strategy & Analytics
AEM 4060: Risk Simulation & Monte Carlo Methods
AEM 4070: Advanced Financial Analytics
AEM 4120: Computational Methods for Management & Economics
AEM 4225: Systems and Analytics in Accounting
AEM 4610: Business Processes, Analytics & Enterprise Systems (1.5 cr.)
AEM 4620: Adv. Financial Modeling & Analysis (2 cr.)
STSCI 4060: Python Programming & Its Applications in Statistics
HADM 4010: Data-Driven Analysis
CS 2110: Object-Oriented Programming & Data Structures

Entrepreneurship
At least 15 elective credits from the following:
AEM 1210: Entrepreneurial Thought Leadership Sem (1 cr.)
AEM 1220: Entrepreneurship in the Life Sciences (1 cr.)
AEM 1221: Entrepreneurship in the Life Sciences II (1 cr.)
AEM 1230: Foundations of Entrepreneurship & Business (2 cr.)
AEM 3220: Digital Business Strategy
AEM 3245: Organizational Behavior
AEM 3249: Entrepreneurial Marketing & Strategy
AEM 3250: Bus. Planning Process for New Ventures (4 cr.)
AEM 3251: The Business Laboratory & New Venture Management (4 cr.)
AEM 3340: Women, Leadership, & Entrepreneurship (1 cr.)
AEM 3350: International Technology Marketing of Biotechnology
AEM 3380: Social Entrepreneurs, Innovators, & Solvers
AEM 3381: Social Entrepreneurship Field Study (1 cr.)
AEM 3610: The Business Lab & Implementation of a Business Plan
AEM 4080: Innovation & New Product Mgt. (1.5 cr.)
AEM 4370: Strategy & Innovation
AEM 4380: Entrepreneurial Strategy for Technology Ventures (2 cr.)
AEM 4390: Technology Strategy (2 cr.)
AEM 4420: Emerging Markets
AEM 615: Platform Strategy
HADM 4130: Entrepreneurial Management
HADM 4211: Entrepreneurial Finance
NBA 3000: Entrepreneur and Private Equity
NBA 6230: Actualizing Your Startup–Part I

Environmental, Energy, and Resource Economics
AEM 2500: Environmental & Resource Economics
AEM 4500: Resource Economics
AEM 4510: Environmental Economics
ECON 3030: Intermediate Microeconomic Theory
Note: ECON 3030 can be used to replace both ECON 1110 & 3030 (can replace 3030 with a grade of B or better)
At least 12 credits listed under Environmental Economics Requirements*
At least 3 credits listed under Quantitative Methods Requirements*
*Must be courses that have not already been used to fulfill the AEM Core Requirements

Note: ECON 3010 can be used to replace both ECON 1110 & 3030 with a grade of B or better.
ECON 3040: Intermediate Macroeconomic Theory
ECON 3020 can replace ECON 1120 & ECON 3040 (can replace 3040 with a grade of B or better).
Minimum 3 credits of EERE-related electives offered by the following departments: BIOEE, BEE, CRP, EAS, GOVT, NTRES, DSOC (can also use AEM 2110)

Finance
AEM 4570: Corporate Finance
AEM 4670: Investments

Must take one of the following:
AEM 3520: Financial Statements Analysis
AEM 3360: Intermediate Accounting I

At least 6 elective credits from the following:
AEM 3050: Management of Banking Companies (1 cr.)
AEM 3060: Practitioner’s Overview of Securities Markets & Asset Management (1 cr.)
AEM 4060: Risk Simulation & Monte Carlo Methods
AEM 4070: Advanced Financial Analytics
AEM 4090: Environmental Finance & Markets
AEM 4210: Futures, Options, & Financial Derivatives
AEM 4230: Contemporary Topics in Behavioral Finance
AEM 4260: Fixed Income Securities (4 cr.)
AEM 4270: Valuation of Capital Investment (4 cr.)
AEM 4290: International Financial Management
AEM 4305: Financial Markets & Institutions
AEM 4310: Advanced Financial Modeling & Analysis (2 cr.)
AEM 4630: Asset Pricing & Management (1.5 cr.)

Food Industry Management
AEM 2480: Food and Consumer Packaged Goods Industry Dynamics
Consumer Behavior: AEM 3440 or HADM 3470
AEM 4400: Retail Strategy
At least 6 elective credits from the following:
AEM 3270: Marketing-Operations Simulation (2 cr.)
AEM 3430: Principles of Supply Chain Management
AEM 3450: Sustainability Marketing
AEM 4020/4021: Food & Brand Lab Workshop
AEM 4150: Price Analysis
AEM 4460: Food Marketing Colloquium (1 cr.)

International Trade and Development
Must take one of the following:
AEM 2300: International Trade and Finance
AEM 2350: Introduction to the Economics of Development
At least 12 elective credits from the following:
AEM 2110: The Business of Biofuels (1.5 cr.)
AEM 4290: International Financial Management
AEM 4300: International Trade Policy
AEM 4350: The Political Economy of the WTO
AEM 4420: Emerging Markets
AEM 4421: Research & Strategy in Emerging Markets
AEM 4520: Toward a Sustainable Global Food System: Food Policy for Developing Countries
AEM 4485: Economics of Food & Malnutrition
AEM 4545: International Finance & Macroeconomics
AEM 4640: Economics of Agricultural Development

Marketing
Consumer Behavior: AEM 3440 or HADM 3470
AEM 4410: Marketing Research
At least 9 elective credits from the following:
AEM 3210: Business Law II
AEM 3245: Organizational Behavior
AEM 3249: Entrepreneurial Marketing & Strategy
AEM 3270: Marketing-Operations Simulation (2 cr.)
AEM 3350: International Technology Marketing of Biotechnology
AEM 3430: Principles of Supply Chain Management
AEM 3450: Sustainability Marketing
AEM 4015: Customer Strategy & Analytics
AEM 4020/4021: Food and Brand Lab Workshop (1.5 cr.)
AEM 4080: Innovation & New Product Management
AEM 4150: Price Analysis
AEM 4160: Strategic Pricing
AEM 4400: Retail Strategy
AEM 4420: Emerging Markets
AEM 4495: Consumer Neuroscience
AEM 4550: Economics of Advertising

Strategy
At least 15 elective credits from the following:
AEM 2550: Corporate Sustainability: Business in a Resource-Constrained World (1.5 cr.)
AEM 3210: Business Law II
AEM 3220: Digital Business Strategy
AEM 3245: Organizational Behavior
AEM 3430: Principles of Supply Chain Management
AEM 4120: Customer Strategy and Analytics (1.5 cr.)
AEM 4080: Innovation & New Product Mgt. (1.5 cr.)
AEM 4140: Behavioral Economics & Managerial Decisions
AEM 4160: Strategic Pricing
AEM 4190: Strategic Thinking
AEM 4370: Strategy and Innovation
AEM 4380: Entrepreneurial Strategy for Technology Ventures (2 cr.)
AEM 4390: Technology Strategy (2 cr.)
AEM 4480: Executing Firm Strategy (2 cr.)
AEM 4580: The Economics & Psychology of Sustainable Business
AEM 4610: Business Processes, Analytics & Enterprise Systems

Note: All classes in your declared concentration must be taken for a letter grade; NO S/U grades will be accepted.