

## MSAE Graduation Checklist (2019 fall admits)

### *Required Core Courses*

| <u>Course number</u> | <u>Course title</u>                      | <u>Possible substitutes/exemptions</u>                                      |
|----------------------|--|---|
| ECON 601             | Microeconomics: Theory & Applications    | None.   |
| ECON 611             | Computation for Economic Analysis        | At least one previous programming course, and very comfortable with Python. |
| ECON 615             | Mathematics for Economists               | None.   |
| ECON 620             | Graduate Econometrics                    | Econometrics, taught using linear algebra.                                  |
| ECON 641             | Microeconomics for the Digitized Economy | Economics 640: Institutions, Market, and Platforms                          |
| ECON 690             | Economics Seminar                        | Econ 692 substitutes for Econ 690.  |

### *Advanced Empirical Methodology Courses (totaling at least 6 units)*

| <u>Course Number</u> | <u>Course Name</u> | <u>Units</u> |
|----------------------|--------------------|--------------|
|                      |                    |              |
|                      |                    |              |
|                      |                    |              |

### *Other Electives*

| <u>Course Number</u> | <u>Course Name</u> | <u>Units</u> |
|----------------------|--------------------|--------------|
|                      |                    |              |
|                      |                    |              |
|                      |                    |              |
|                      |                    |              |

### *Total Unit Count (must equal or exceed 33)*

| <u>Category</u>                       | <u>Units</u> |
|---------------------------------------|--------------|
| Required Core:                        |              |
| Advanced Empirical Methodology (AEM): |              |
| Other Electives:                      |              |
| Total:                                |              |

## Rules and Guidelines

### *Course substitutions or exemptions*

Any substitutes or exemptions are at the discretion of the Program Director and must receive prior written approval. Courses will only be considered if they were taken for a grade at an accredited institution for B+ or better grade. Substitutions or exemptions do not reduce the total number of USF credits required to graduate.

*Approved AEM courses* (not all are in the catalog yet—names may change slightly):

- ECON 621 Data Science for Applied Economics (2 units)
- ECON 622 Machine Learning for Economic Inference (2 units)
- ECON 625 Econometrics of Financial Markets (3 units)
- ECON 626 Experimentation and Causal Inference (2 units)
- ECON 627 Applied Econometrics (3 units)
- ECON 628 Advanced Applied Econometrics (3 units)
- ECON 629 Causal Inference with Observational Data (2 units)
- ECON 631 Data Visualization (2 units)
- ECON 642 Strategic Analytics and Pricing (2 units)
- ECON 663 Experimental Economics (3 units)

### *Electives*

Any economics course numbered 600 or higher may be counted as an elective.

Up to 8 units of electives may be taken in the form of graduate level courses from other departments and programs. Approval must be obtained from the Program Director in writing *before* enrolling in the class. Approval of a substitute course by the Applied Economics program does not guarantee that the other department or program will be able to accommodate the student's request to take a class.

Undergraduate courses are unlikely to be approved as electives, with the exception of 400-level math courses needed to prepare for PhD coursework. In any case, no more than 25% of the units taken towards the graduate degree may be at the undergraduate level (numbered 400 or below).