

M.S. Behavioral and Computational Economics

UNIQUE PROGRAM

Chapman University's Economic Science Institute (ESI) offers a Master of Science degree in Behavioral and Computational Economics (MSBCE) for students interested in designing systems that consider human behavior in e-commerce, finance, health, energy, and public and private sector resource management.

The MSBCE degree is singular to Chapman University, and is inspired by the experimental approach to economics developed by ESI founder Vernon Smith, winner of the 2002 Nobel Prize in Economics.

Working alongside Nobel Laureate Vernon Smith and the world-renowned research faculty, you'll learn to...



- Investigate human behavior in complex interactive systems using human subject experiments, computational modeling, and advanced data analysis techniques.
- Undertake rigorous scientific inquiry into the design, testing an implementation of novel systems for efficient trade, provision of services, scheduling of activities, and distribution of resources.



WHERE GRADUATES WORK

This innovative master's program is open to any student with a strong technical background. It complements the preparation of students with undergraduate degrees in engineering, economics, computer science, physics, psychology, mathematics, and uniquely positions them for future employment or graduate study.

Graduates are employed by companies such as Google, Toyota, Deloitte, Koch Industries, Moblab, Deepmind, Nike, Cornerstone Research, LIMRA, Arlington Economics, Corelogic, and CGI Technologies.

Furthermore, graduates who decide to continue their studies to get a PhD went to universities such as Tulane University, University of Virginia, Stockholm School of Economics, George Mason University, University of Notre Dame, UC Santa Cruz, Louisiana State University, and Chapman University.

APPLY FOR A SCHOLARSHIP

Qualified students can receive assistance from the Economic Science Institute in the form of full-tuition waivers and/or paid research assistant positions. The University's financial aid office can provide more comprehensive information: 714-997-6741 or finaid@chapman.edu.

For complete Admission Requirements contact the Office of Graduate Admission at (888) 282-7759, or go online at www.chapman.edu/gradadmission

Application Deadline: May 31st



**CHAPMAN
UNIVERSITY**

WHAT GRADUATES SAY

The best part about ESI is definitely the people. I cannot say enough good things about the faculty, staff and students. They have built a strong support network where students can feel free to ask questions, challenge ideas and still have a lot of fun. Additionally, because of thoughtful and interested faculty members, I have had many opportunities for networking with businesses, programmers and academics over the past two years. I even got my job related to experimental economics through a connection with an ESI faculty member!

— Rachel Bodsky '12

I was a pre-medical studies mathematics major. The small class sizes and variety of perspective allowed me to pick up skills and explore subject matter. It let us have some freedom with our education and pursue precisely what interested us. Study what you want to study and build what you want to build.

— Tristan Tran '18

My background, before joining ESI, was in finance. For me, it's a privilege to study at ESI. The master's program at ESI is very special. It has relatively small classes and the atmosphere is very friendly. There are a lot of opportunities to develop projects either by yourself or with others. The professors are here to help the students with their projects. Another special part of ESI is its flexibility and diversity. This program is designed to focus on experimental and behavioral economics. But students have other options. For example, students get the chance to take classes from other programs such as computational and data sciences.

— Nannan Peng '20



CURRICULUM

Prerequisites:

Multivariable Calculus
Programming: Python, Java, or C++
Experimental Design and Statistics
Auction and Market Design I**

**must be taken at Chapman University

Required Courses:

Computational Economics
Computational Economics II
Game Theory I
Game Theory II
Behavioral Economics and Finance
Behavioral Economics and Finance II
Economic Systems Design II
Economic Systems Design III

Options:

Thesis or Non-Thesis
with approved courses from:
Health, Psychology, & Economics
Computational Finance
Data Mining
Experimental Economics
Machine Learning
Multivariate Data Analysis
Dynamic Optimization



CHAPMAN
UNIVERSITY