Undergraduate Economics Program Courses

73-003 Transfer Credit
All Semesters
This number ‘holds’ a place for an economics transfer credit courses so that these courses can be used in the academic audit system. Student receiving 73-003 credit have met the requirement of earning the equivalent of a ‘C’ in their non-CMU economics course; however, have not earned the equivalent of a ‘B’ which would provide credit for a CMU economics course equivalency.

73-060 Economics: BaseCamp
Fall: 3 units
This short course will launch you into the economics intellectual space and get you thinking like an economist. Through a series of presentations by some of CMU’s great economics thinkers you will learn how economic reasoning harnessed to data can lead to better policy design and better business decision making. Presentations may cover the economics of bitcoin and crypto-currency, online market design, financial crises, the future of work, how to become involved in economics research, healthcare, the environment, and other topics. The presentations will be curated by one of CMU’s research economists and there will be plenty of opportunities for discussion and debate. The course will also introduce you to the CMU approach to economics and map out the CMU economics major landscape.

73-102 Principles of Microeconomics
Fall and Spring: 9 units
A one-semester course that teaches the fundamentals of microeconomics. Students will learn how microeconomic analysis can explain market successes, market failures, how government intervention might improve outcomes, and the role of asymmetric information. In addition to an investigation of firm behavior and consumer behavior, attention will be paid to: Game Theory, Behavioral Economics, Economics of Time and Risk, Economics of Information, Experimental Economics, and Auctions and Market Design. Students will also learn how to integrate basic data analysis and statistics. Not open to students who have received credit for 73-100. Where there are no mathematical pre-requisites for this course, students are encouraged to enroll in 73-102 after they’ve passed 21-111. (Lecture, 2 hours; Recitation, 1 hour).

73-103 Principles of Macroeconomics
All Semesters: 9 units
A one-semester course that teaches the fundamentals of macroeconomics. Students will learn how macroeconomic analysis can explain national economic activity and how government intervention might stabilize an economy. Topics include: defining and measuring national wealth, economic growth, credit markets, unemployment, interest rates, inflation, and the monetary system. Additional emphasis will be paid to: long-term economic development, political economy, financial crises and topics that are central to contemporary macroeconomic debates such as the impact of technological change, migration, and trade on the macroeconomy. Students will access macroeconomic databases, and then use basic statistics to describe and isolate empirical patterns in macro-data. Not open to students who have received credit for 73-100. (Lecture, 2 hours; Recitation, 1 hour). Prerequisite: 73-102 Min. grade C

73-111 Internship I
All Semesters
The goal of this course is for you to reflect critically and constructively on your internship and to help you identify a path that will allow you to build on your internship experiences. By permission of the Undergraduate Economics Program. Open only to declared Economics, Economics and Mathematical Sciences, Economics and Politics, and Economics and Statistics majors.

73-112 Internship II
All Semesters: 3 units
The goal of this course is for you to reflect critically and constructively on your internship and to help you identify a path that will allow you to build on your internship experiences. By permission of the Undergraduate Economics Program. Open only to declared Economics, Economics and Mathematical Sciences, Economics and Politics, and Economics and Statistics majors.

73-113 Internship III
All Semesters: 3 units
The goal of this course is for you to reflect critically and constructively on your internship and to help you identify a path that will allow you to build on your internship experiences. By permission of the Undergraduate Economics Program. Open only to declared Economics, Economics and Mathematical Sciences, Economics and Politics, and Economics and Statistics majors.

73-160 Foundations of Microeconomics: Applications and Theory
Spring: 9 units
Intermediate level microeconomics stresses individual economic decision making in the context of consumer behavior, and firm behavior, and examines in detail how these behaviors interact within market settings to answer the fundamental economic questions of what gets produced, how it gets produced, and who gets the output. These component theories of economic behavior are the building blocks of higher level economic analysis, as well as the basis for examining empirically-motivated deviations from classical economic predictions. As such, most of the course will be methodological in its focus, although many of the problems in the weekly assignments will involve everyday personal and business applications. The experiments we do will also give students hands-on experience with the phenomena that economic theories try to explain. (Lecture, 3 hours: Recitation: 1 hour). Minimum grade of ‘C’ required in all economics pre-requisite courses. Prerequisites: 21-120 and (73-100 Min. grade C or 73-102 Min. grade C)

73-198 Research Training: Economics
Intermittent: 9 units
Intermediate microeconomics stresses individual economic decision making in the context of consumer behavior, and firm behavior, and examines in detail how these behaviors interact within market settings to answer the fundamental economic questions of what gets produced, how it gets produced, and who gets the output. These component theories of economic behavior are the building blocks of higher level economic analysis, as well as the basis for examining empirically-motivated deviations from classical economic predictions. As such, most of the course will be methodological in its focus, although many of the problems in the weekly assignments will involve everyday personal and business applications. The experiments we do will also give students hands-on experience with the phenomena that economic theories try to explain. (Lecture, 3 hours: Recitation: 1 hour). Minimum grade of ‘C’ required in all economics pre-requisite courses. Prerequisites: 21-120 and (73-100 Min. grade C or 73-102 Min. grade C)

73-210 Economics Colloquium I
Fall: 3 units
Economics majors meet weekly for discussions about current research by faculty or students, presentations on economics from economists outside academia, and expository talks on selected economics topics not part of the usual curricula. The colloquium provides students with opportunities to grow personally and intellectually by introducing them to campus resources (including special interest to undergraduates such as preparation for graduate school) and using the economic toolbox to examine current economic topics in the press. It is recommended that students take this course during the sophomore year so that economics majors realize the range of resources that exist on campus. (Colloquium, 1 hour)

73-230 Intermediate Microeconomics
Fall and Spring: 9 units
This course is a multivariate calculus-based study of microeconomics. Topics in partial equilibrium analysis include supply and demand, consumer theory, theory of the firm, profit maximizing behavior, monopoly theory, and perfect competition. The course concludes with an introduction to general equilibrium analysis and the welfare laws. (Lecture, 3 hours; Recitation, 1 hour). Minimum grade of ‘C’ required in all economics pre-requisite courses. Prerequisites: (21-269 or 21-268 or 21-256 or 21-258) and (73-102 Min. grade C or 73-110 Min. grade C)
73-240 Intermediate Macroeconomics
Fall and Spring: 9 units
Through macroeconomic models built upon microeconomic foundations, insights are developed into economic growth processes and business cycles. Topics include aggregation and measurement, national income, business cycle measurement, economic welfare theorems and social inefficiencies, the effect of government fiscal policy upon employment and productivity, and the relationship between investment, interest rates and economic growth. (Lecture, 3 hours; Recitation, 1 hour). Minimum grade of 'C' required in all economics pre-requisite courses.
Prerequisites: (21-256 and 73-100 Min. grade C) or (21-256 and 73-102 Min. grade C and 73-103 Min. grade C) or (73-100 Min. grade C and 21-259) or (21-259 and 73-102 Min. grade C and 73-103 Min. grade C)

73-255 Independent Study in Economics
Fall and Spring
The Independent Study course in economics allows students to pursue their own research interests in any of a variety of topics in economics. A typical independent study course involves a semester long project under the supervision of an appropriate faculty advisor. The nature and scope of the project are determined by the student and faculty advisor; the project proposal must be approved by an Undergraduate Economics Program staff member. Minimum grade of 'C' required in all economics pre-requisite courses.
Prerequisites: 21-120 and 73-160 Min. grade C

73-258 Developing Blockchain Use Case
Intermittent: 6 units
Blockchains, or distributed ledger and consensus technologies, hold tremendous promise for improving markets and organically handling private, secure data. As CMU develops its own blockchain and token—CMU Coin—a central concern is to determine the set of applications that such technology would be most useful for. This course is designed for students to propose and, potentially, develop applications or use cases for a campus blockchain. http://tinyurl.com/cmucoinconference (http://tinyurl.com/cmucoinconference) The course begins with a brief introduction to blockchain using Bitcoin as an example of a blockchain protocol. We will examine the market failure Bitcoin was intended to resolve as well as the role of cryptography and distributed systems in enabling this new technology to create societal value. The course will go on to discuss the boundaries of the role of cryptography in blockchain. Next, we will use these tools to evaluate existing, real-world blockchain use cases with an eye towards developing our own applications of these emerging technologies. Along the way, we will learn practical development skills in distributed ledger technologies to understand blockchain programming and application development. Finally, students will propose their own blockchain use cases for CMU's own proprietary blockchain. No formal prerequisites, but familiarity with programming is highly recommended.

73-265 Economics and Data Science
Fall: 9 units
This course is at the intersection of economic analysis, computing and statistics. It develops foundational skills in these areas and provides students with hands-on experience in identifying, analyzing and solving real-world data challenges in economics and business. Students will learn the basics of databases and data manipulation, how to visualize, present and interpret data related to economic and business activity by employing statistical and statistical analysis, machine learning, visualization techniques. Students will also be taught a programming language suitable for data science/analytics. Databases will include leading economic indicators; emerging market country indicators; bond and equity returns; exchange rates; stock options; education and income by zip code; sales data; innovation diffusion; experimental and survey data and many others. Applications will include analyzing the effect of different Internet pricing strategies on firm sales, the impact of taking online classes on a worker's earnings, the relationship between regional employment and trade policies, constructing investment risk indices for emerging markets; predicting employee productivity with machine learning tools; assessing health (sleep and exercise) improvements associated with wearable technologies (e.g. FitBit). Additionally, the course will provide students with communication skills to effectively describe their findings for technical and non-technical audiences. Minimum grade of 'C' required in all economics pre-requisite courses.
Prerequisites: 21-120 and (36-200 or 36-201) and (73-102 Min. grade C or 73-100 Min. grade C)

73-270 Professional Communication for Economists
Fall and Spring: 9 units
A writing course specifically designed for second-year and third-year Economics majors and additional majors. Students gain experience with technical writing techniques and skills needed for both their eventual professional careers. The course emphasizes both individual and group projects. (Seminar, 3 hours). Minimum grade of 'C' required in all economics pre-requisite courses.
Prerequisites: 76-101 and (73-230 Min. grade C or 73-240 Min. grade C)

73-274 Econometrics I
Spring: 9 units
This course will provide an introduction to the analysis of economic field data. The first part of the course will discuss how data is generated and how this affects the inferences we can make. In particular, we will look at the difficulties of working with field data and learn how non-random sampling leads to poor inferences. We will then move on to some simple statistical techniques, in particular OLS and its extensions as well as Maximum Likelihood Estimators. We will also learn about the large sample properties of these estimators. At the end of the course, students should be able to understand what inferences can be made with field data and some basic statistical techniques that can be used to uncover patterns in the data. (Lecture, 3 hours; Recitation, 1 hour), Pre-reqs for those entering Fall 2018 and later: (21256 or 21259 or 21268 or 21269) and (73265) and (73230 or 73240). Students pursuing the ECOMTH or MHECO degrees may enroll in 73-274 after the completion of 36-225. Minimum grade of 'C' required in all economics and statistics pre-requisite courses.
Prerequisites: (21-266 or 21-268 or 21-259 or 21-256) and 73-265 Min. grade C and (73-230 Min. grade C or 73-240 Min. grade C)

73-315 Market Design
Spring: 9 units
In this course, we consider the design of various market mechanisms. We learn the typical causes of market failures and why we need to design new markets. For each topic, we start with a case study of a problem, develop a theory to address it, and consider its possible solutions. The class is roughly divided into three parts: matching, auctions, and further topics. In the first part, we study markets where there is no money and no prices (matching markets). Instead, we have people preferences over possible matching outcomes. Examples include placing doctors in residency positions, assigning students to schools, and assigning kidneys to transplant patients. We will learn algorithms that have desirable theoretical properties and are often used in practice. In the second part, we consider the problem of allocating single or multiple goods (a house, a painting, or the rights to a natural resource such as oil or timber) using auctions. We discuss how different types of auctions work in theory and practice. We will look at the auctions used in financial markets to sell treasury bills, the auctions used by Google, Microsoft and Facebook to sell advertising, and the auctions used by governments to sell radio spectrum licenses. In the third part, we consider further important topics of market design. We will look into problems of high-frequency trading, digital markets, the allocation of refugees among European countries, and proposals to fix market for carbon pollution permits. An important goal of the course is to show how recent achievements of game theory and mechanism design lead to important practical applications and to inspire you to use these ideas in your life and workplace. (Lecture, 3 hours). Minimum grade of 'C' required in all economics pre-requisite courses.
Prerequisites: (21-256 or 21-257 or 21-269 or 21-259 or 21-256) and 73-265 Min. grade C

73-327 Advanced Topics In Macroeconomics And Real Business Cycles
Intermittent: 9 units
For analysts and decision makers in a variety of positions, such as business managers and government policy makers, a thorough understanding of the economy as a whole helps to make well-informed decisions. Examples of important knowledge about the economy are its sources of growth, the main impulses that cause the economy to fluctuate over time and enter into booms and recessions, the way in which these impulses propagate over time, and the state of the economy in general. The main objective of this course is to lay the foundation for such an understanding and present a framework within which we can (and will) evaluate a variety of aggregate phenomena. Minimum grade of 'C' required in all economics pre-requisite courses.
Prerequisites: (21-269 or 21-268 or 21-259 or 21-256) and 73-240 Min. grade C
73-328 Health Economics
Fall: 12 units
This course will teach the student to use economic analysis to understand critical issues in health care and and health policy. We will address issues such as the following: 1. What factors best explain the level and rate of growth of U.S. health expenditures? 2. Does the recent high rate of growth of U.S. health care expenditures make U.S. firms less competitive in international markets? 3. What are some of the likely consequences (intended and unintended) of the proposed reforms to Medicare? 4. Can physicians induce demand for their services? 5. What are the impacts of managed care on the health care system? 6. Do strong affilations between physicians and health plans hurt competition? (Lecture, 3 hours). Minimum grade of ‘C’ required in all economics pre-requisite courses. Junior standing required. Prerequisites: 21-120 and (73-160 Min. grade C or 73-230 Min. grade C)

73-332 Political Economy
Spring: 9 units
The Political Economy course looks at how groups within society organize for self-governance. The course will begin with an overview of the ways groups of individuals organize for collective action by examining different types of political institutions, the role these institutions play in different contexts, and the economic and strategic micro-foundations that give rise to these institutions. We will then examine the empirical evidence supporting this taxonomy, leading to a more detailed consideration of institutions that moderate social conflicts. The next part of the course examines basic results in social choice theory: the Condorcet paradox, Arrow’s Impossibility Theorem, majority rule, median voter theories, and modern treatments of probabilistic voting models that allow for strategic behavior, misrepresentation of preferences, and policy manipulation. From this basis for understanding collective choice mechanisms, we will then examine how institutions foster cooperation, looking in detail at problems of public goods allocation, redistribution of income, the organization of clubs - interest groups and lobbying associations — in the private sector, and the organization of legislative activities in the public sector. In our examination of voting and electoral mechanisms, we will look at practical applications of the theory to problems of gerrymandering, voter suppression, and propaganda that feature prominently in contemporary political discourse. Prerequisites: 73-230 Min. grade C and (84-275 Min. grade C or 84-104 Min. grade C)

73-338 Financial Crises and Risk
Fall: 9 units
This course provides an in-depth examination of the causes of financial crises as well as what governments can do to prevent them or at least reduce their cost. The course is designed to provide an understanding of individual attitudes towards risk and individual decision making under uncertainty, and the role of managers in helping individuals manage risk, especially those roles which may lead to economic instability and crises. In addition, the course may cover bubbles and financial crises. We examine the economic instability and crises. In addition, the course may cover bubbles and financial crises. We examine the economic instability and crises. In addition, the course may cover bubbles and financial crises. We examine the economic instability and crises. In addition, the course may cover bubbles and financial crises. We examine the economic instability and crises. In addition, the course may cover bubbles and financial crises. We examine the economic instability and crises. 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73-365 Firms, Market Structures, and Strategy
Fall: 9 units
This course is concerned with the economic analysis of industrial markets that are not perfectly competitive. The effects of imperfect competition on firms’ decisions (pricing, location, advertising, research and development, among others) are reviewed. Implications of these effects in terms of public policy are also discussed from a variety of perspectives. Finally, applications to actual markets are considered. (Lecture, 3 hours). Minimum grade of ‘C’ required in all economics pre-requisite courses.
Prerequisites: (21-268 or 21-269 or 21-259 or 21-256) and 73-230 Min. grade C

73-366 Designing the Digital Economy
Spring: 9 units
This class analyzes the economics of e-commerce and technology. It will identify the critical features that differentiate the technology firms from traditional industries, and examine the implications for business strategy. The class will discuss topics such as network effects, switching costs, and platform markets. To complement the economic theory, we will also consider a case study of a firm each week. These have three aims: to provide applications for the concepts developed in the lectures; to inform you about different industries; and to help develop your written, rhetorical and presentation skills. Minimum grade of ‘C’ required in all economics pre-requisite courses.
Prerequisites: (21-259 or 21-269 or 21-268 or 21-256) and 73-230 Min. grade C and (36-202 or 36-208 or 36-220 or 36-226 or 70-208 or 73-265 Min. grade C or 73-274 Min. grade C or 73-374 Min. grade C or 73-407 Min. grade C)

73-376 Technology Jobs and the Future of Work
Spring: 9 units
The aim of this course is to provide students with an in-depth analysis of the US labor market and what role technology has in shaping labor market outcomes. This course will look at the factors influencing wage returns, the outcomes of job-search and also require students to undertake a hands-on analysis of data. Topics of interest are as follows: 1. What affects wage outcomes of workers? 2. What’s happening to the labor share and what are the reasons for its decline? 3. What is the role of comparative advantage and how has increasing automation changed the returns to job-search for some individuals? 4. What is job polarization and what are the factors affecting the mobility of workers between occupations and jobs? (Lecture, 3 hours). Minimum grade of ‘C’ required in all economics pre-requisite courses.
Prerequisites: (21-268 or 21-256 or 21-259 or 21-269) and 73-230 Min. grade C and 73-240 Min. grade C

73-372 International Money and Finance
Spring: 9 units
The course introduces students to a micro-founded model of the global monetary system. The model is employed to assess the roles of money, banking, and central banking in the management of inflation, employment, and financial stability. Interest rates, the international trade balance, and international capital flows are explored in terms of the model. The model is used to address controversial issues in international trade and financial relations, as well as current macroeconomic stabilization problems. In particular, the focus is on emerging market economies such as India, China, the Euro area, the United States, and elsewhere.

Theoretical points are illustrated with references to historical central bank practices from around the world in recent decades. The course concludes with student briefings on current central bank policies from around the world. (Lecture, 3 hours). Minimum grade of ‘C’ required in all economics pre-requisite courses.
Prerequisites: (21-256 or 21-259 or 21-269 or 21-268) and 73-240 Min. grade C

73-374 Econometrics II
Fall: 9 units
The material covered in this course extends from the material covered in Econometrics I (73-274). The course will include both the theory behind the methods and a hands-on analysis of actual data, providing students the tools for both research and industry jobs. Theories and methodologies covered will include: nonlinear regression models, qualitative response regression models, panel data estimation, simultaneous equation models, and time series. (Lecture, 3 hours; Recitation, 1 hour). Minimum grade of ‘C’ required in all economics and statistics pre-requisite courses.
Prerequisites: (21-269 or 21-259 or 21-269 or 21-268) and 73-230 Min. grade C and 73-274 Min. grade C

73-395 Independent Study in Economics
Fall and Spring
The Independent Study course in economics allows the student to pursue his or her own research interests in any of a variety of topics in economics
A typical independent study course involves a semester long project under the supervision of an appropriate faculty advisor. The nature and scope of the project are determined by the student and faculty advisor. Minimum grade standard of ‘C’ applies only to economics courses.
Prerequisites: (21-269 or 21-259 or 21-256) and (73-240 Min. grade C or 73-230 Min. grade C)

73-408 Law and Economics
Intermittent: 9 units
This course will provide a broad overview of the scholarly field known as ‘law and economics.’ The focus will be on how legal rules and institutions can correct market failures. We will discuss the economic function of contracts and, when contracts fail or are not feasible, the role of legal remedies to resolve disputes. We will also discuss at some length the choice between encouraging private parties to initiate legal actions to correct externalities and governmental actors, such as regulatory authorities. Extensive attention will be given to the economics of litigation, and to how private incentives to bring lawsuits differ from the social value of litigation. The economic motive to commit crimes, and the optimal governmental response to crime, will be studied in depth. Specific topics within the preceding broad themes include: the Coase Theorem; the tradeoff between the certainty and severity of punishment; the choice between ex ante and ex post sanctions; negligence versus strict liability; property rules; remedies for breach of contract; and the American rule versus the English rule for allocating litigation costs. (Lecture, 3 hours). Minimum grade of ‘C’ required in all economics pre-requisite courses.
Prerequisites: 21-120 and (73-160 Min. grade C or 73-230 Min. grade C)

73-415 Data Driven Business and Public Policy Decision Making
Intermittent: 9 units
In this course students will learn to leverage data to inform business and policy decisions. The course will teach students various methods for data description, including techniques of data visualization and statistical techniques. Students will learn how to assess the precision of estimation techniques. The final part of the course covers examples taken from epidemiology, economics, business and public policy. (Lecture, 3 hours; Recitation: 1 hour). Minimum grade of ‘C’ required in all economics and statistics pre-requisite courses.
Prerequisites: (21-268 or 21-269 or 21-259 or 21-256) and 73-230 Min. grade C and 73-265 Min. grade C

73-421 Emerging Markets
Fall: 9 units
The goal of the course is to study the economic and institutional forces that spur or hinder business activity and growth in emerging economies. The course is designed to provide both quantitative and theoretical foundations for the study of emerging markets. On the quantitative side, the course will introduce students to the empirical analysis of the growth forces and obstacles facing emerging markets by providing numerous hands-on opportunities using real-world data. On the theory side, the course will provide an overview of fiscal, trade and exchange rate policies adopted in emerging economies. The course will focus on successful emerging economies such as India, China, S. Korea and Ireland with broader lessons and comparisons drawn from developed countries. The course will also look at distressed economies, such as North Korea and Venezuela analyzing the challenges and opportunities faced by these developing nations today. (Lecture, 3 hours). Minimum grade of ‘C’ required in all economics pre-requisite courses.
Prerequisites: (70-207 or 36-200 or 36-207) and 73-102 Min. grade C and 73-103 Min. grade C

73-423 Forecasting for Economics and Business
Spring: 9 units
Governments forecast economic indicators (e.g., GDP, job growth, etc.); businesses forecast sales; portfolio managers forecast asset return; the list goes on. Accurate forecasts are critical to robust organizational decision-making. This course will introduce students to modern methods for forecasting in economic and business applications. Topics covered include Bayesian, statistical, and online learning approaches to forecast construction and assessment, univariate and multivariate time series models and algorithms, and principled combination of multiple methods and data sources along with subject matter expertise to improve performance. Methods will be motivated by applications in macroeconomics, technology, marketing, and finance, with cases drawn from forecasting processes in a variety of business and government organizations. Students will implement forecasting methods in R, including in a real data forecasting competition.
Prerequisites: (21-269 or 21-259 or 21-256 or 21-268) and (73-274 Min. grade C or 73-240 Min. grade C or 73-230 Min. grade C)
73-427 Sustainability, Energy, and Environmental Economics
Fall: 9 units
Topics related to sustainability and the environment are increasingly important to businesses, policymakers, and the general public. This course applies the tools of economic analysis to the problems of environmental protection, natural resource management, and energy production and use. The course will begin by introducing students to how an economist approaches problems of market failure commonly found in environmental contexts. Next, we will explore models that characterize solutions to such environmental issues. We will then address questions regarding measurement, policy design, and, finally, we will apply the tools that we have developed during the semester to the problems of climate change, and the optimal management of non-renewable resources. (Lecture, 3 hours). Minimum grade of ‘C’ required in all economics pre-requisite courses. Prerequisites: (21-259 or 21-268 or 21-269 or 21-260) and 73-230 Min. grade C

73-469 Global Electronic Markets: Economics and the Internet
Fall: 9 units
The information revolution brought about by the Internet is having a dramatic impact on the organization of economic activity. Long-term contractual relationships that once governed corporate procurement are being dismantled as manufacturers use the Internet to market directly to the public. New transportation networks that used to simply move goods from point A to point B are evolving into dynamic inventory pipelines that allow manufacturers to track and even reroute shipments in real time. At the same time, individuals are making use of sophisticated search engines to comparison shop at a scale that would have been physically exhausting even five years ago. We will use the basic tools of economic analysis to understand how and why the changes in information technology are reshaping the economic landscape. (Lecture, 3 hours). Minimum grade standard of ‘C’ applies only to economics courses. Prerequisites: (21-256 or 21-259 or 21-268 or 21-269) and (73-407 Min. grade C or 73-230 Min. grade C or 73-230 Min. grade C)

73-476 American Economic History
Fall: 9 units
The study of economic history provides important perspective on current economic institutions and policies. A failure to understand the historical evolution of economic institutions or the variety of past economic experience is perhaps the worst shortcoming of many economists. The study of economic history provides an opportunity to test currently fashionable theories against data different from those used in their construction. In fact, this is a course in applied economics. The theories developed in the intermediate courses will be applied to episodes from the past in ways that increase understanding both of the specific historical episodes considered and the economic theories employed. (Lecture, 3 hours). Minimum grade of ‘C’ required in all economics pre-requisite courses. Prerequisites: 21-120 and (73-160 Min. grade C or 73-230 Min. grade C)

73-497 Senior Project
Fall: 9 units
A fourth-year project course, open only to Economics primary and additional majors with Senior standing. The senior project is a capstone course in economics. The purpose of the course is to showcase the analytical and quantitative skills that you have acquired as an undergraduate at Carnegie Mellon. The course project should reflect some independent applied research that is genuinely your own work. Thus a ‘book report’ or a ‘literature review’ are not sufficient exercises to satisfy this requirement. The following research approaches are acceptable for the research project: an empirical study based on a data set that you put together, an experimental study based on an experiment that you conducted, a theoretical analysis based on a model that you have developed, based on your own algorithm. Students who write an honor thesis are exempted from this class. (Lecture, 3 hours). Minimum grade of ‘C’ required in all economics pre-requisite courses. Prerequisites: (21-256 or 21-259 or 21-268 or 21-269) and (73-407 Min. grade C or 73-230 Min. grade C or 73-230 Min. grade C or 36-226 or 36-303) and 73-230 Min. grade C and 73-240 Min. grade C

73-500 Tepper College Honors Thesis I
Fall and Spring
Economics majors with outstanding academic records and intellectual promise will be given the opportunity to undertake original research under the direction of individual faculty members. Research topics are selected by students and approved by faculty. Prerequisites: Senior standing in the Economics Program and permission of the Economics faculty. Minimum grade of ‘C’ required in all economics and statistics pre-requisite courses. Prerequisites: (21-268 or 21-259 or 21-256 or 21-269) and (73-265 Min. grade C or 36-226 Min. grade C or 73-274 Min. grade C) and 73-230 Min. grade C and 73-240 Min. grade C

73-501 Tepper College Honors Thesis II
Fall and Spring
Economics majors with outstanding academic records and intellectual promise will be given the opportunity to undertake original research under the direction of individual faculty members. Research topics are selected by students and approved by faculty. Prerequisites include: Senior standing in the Economics Program and permission of the Economics faculty. Minimum grade of ‘C’ required in all economics and statistics pre-requisite courses, and a minimum grade of ‘B’ required in Tepper College Honors Thesis I. Prerequisites: (21-269 or 21-268 or 21-256 or 21-259) and 73-230 Min. grade C and 73-240 Min. grade C and 73-500 Min. grade B and (73-265 Min. grade C or 73-374 Min. grade C)