

**Proponenti:** Coordinatore del dottorato DREAMT da ottobre 2016; Cinzia Di Novi, docente del dottorato.

**Tipologia:** “Formazione Interdisciplinare” ex art. 4, comma 1, lettera f del DM 45/2013 del MIUR.

**Lingua:** Inglese.

**Macro-aree interessate:** Scienze della vita, Scienze umanistiche e sociali, Scienze e tecnologia (parte).

**Titolo:** *Health Economics, Policy and Management.*

**Obiettivi formativi:** Health economics applies the categories and the tools of economics and management to issues of the organization, delivery, and financing of health care. The objectives of this course are to develop an understanding of the relevance of economic and management concepts to the health and health care sectors and to impart an understanding of the role of economic factors in the development of public policy concerning health and health care, including drug market regulation.

**Numero di ore/lezioni:** 24 hours of lectures.

**Periodo di svolgimento:** May 2017.

**Docenti:** Alberto Cavaliere; Giovanni Crea; Chiara Demartini; Cinzia Di Novi; Rosella Levaggi.

**Comitato scientifico:** Chiara Demartini, Cinzia Di Novi, Gianmaria Martini

**Potenziati dottorati interessati:** *Macro-area Scienze della vita:* Medicina sperimentale; Psicologia, neuroscienze e statistica medica; Scienze biomediche. *Macro-area Scienze umanistiche e sociali:* Economics and management of technology (DREAMT). *Macro-area Scienze e tecnologie:* Scienze chimiche e farmaceutiche (Curriculum Farmaceutico).

## **Programma**

This multidisciplinary program in “Health Economics, Policy and Management” concerns three highly relevant fields for health care sector: health economics, health management and economic evaluation. Each module consists of 4 hours of lectures. If no more than about twenty hours are preferred, students can choose five modules they are most interested in among the following:

1. **Introduction – How do economists think about health issues** (tools to learn ideas, type of reasoning and terminology used in health economics) (4h)
  - The consumer theory (utility, indifference curves, budget constraint, consumer equilibrium, individual and market demand, elasticities);

- Production and market supply (production function; isoquant and isocost curves, cost minimization);
- The demand curve, the supply curve, demand and supply shifters and equilibrium in health economics;
- Market structures (firm behavior under competition and monopoly and the measure of welfare loss).

**Lecturer: Alberto Cavaliere**

**Date: April 3, 2017, h. 9-13, Sala del Consiglio, Palazzo San Felice, primo piano**

**2. *Efficiency and Productivity* (4 h)**

- The Grossman theory of the demand for health and healthcare (the production of health, the labor-leisure improvement trade off, the investment /consumption aspects of health, the demand of health capital and changes in equilibrium due to age, income and education);
- Empirical analyses using Grossman's Model

**Lecturer: Cinzia Di Novi**

**Date: April 4, 2017, h. 9-13, Aula L, Palazzo San Felice, primo piano**

**3. *Economic Evaluation in Health and Healthcare* (4h)**

- Introduction to economic evaluation;
- Different techniques of economic evaluation: cost effectiveness analysis (CEA), cost utility (CUA) and cost benefit analysis (CBA);
- Review of methods in existing *empirical* studies.

**Lecturer: Rosella Levaggi**

**Date: April 7, 2017, h. 14-18, Aula E, Palazzo San Felice, piano terra**

**4. *Pharmaceutical Economics and Policy* (4h)**

- The life cycle of a drug;
- Market structure and regulation (competition, patents, barriers to entry, regulation);
- Drug pricing and profits (monopoly pricing and price discrimination);
- R&D and innovation.

**Lecturer: Giovanni Crea**

**Date: April 10, 2017, h. 14-18, Sala del Consiglio, Palazzo San Felice, primo piano**

**5. *Health Systems Performance and Organizations in Comparison* (4h)**

- The Beveridge model: nationalized healthcare;
- The Bismarck model: social health insurance;
- The American model: private health insurance;
- Health system reforms and the future of health policy.

**Lecturer: Cinzia Di Novi**

**Date: April 26, 2017, h. 9-13, Sala del Consiglio, Palazzo San Felice, primo piano**

**6. *Hospital Services Performance* (4h);**

- Introduction to hospital performance;
- How can hospital performance be measured and monitored (inspection, consumer surveys, third party assessment, statistical indicator);
- Quality and performance;
- Policy implications.

**Lecturer: Chiara Demartini**

**Dates: April 21, 2017, h. 14-16, Aula E, Palazzo San Felice, piano terra**

**May 3, 2017, h. 11-13, Aula E, Palazzo San Felice, piano terra (aula provvisoria)**

**Modalità di verifica dell'apprendimento:**

The course will be focused around readings of academic articles that highlight important topics in health economics and management and PowerPoint lecture notes, available for download from the KIRO platform.

There will be a final exam testing students' knowledge of the required reading, materials from lectures, and key results of the published papers that were presented in class.