

# **Double Major program in Economics and Entrepreneurship with Data Science**

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## **Introduction**

The Double Major program in Entrepreneurship and Economics with Data Science provides a multi-dimensional understanding of the global economy and the business world, while giving the students hands-on knowledge to start their own business or startup, knowledge which is taught both by academic experts as well as industry specialists. The Data part of the degree provides the students with unique data analysis and programming skills. The graduates of this program have superb quantitative and analytical skills as well as leadership skills which allow them to excel in the private and public sector.

A great deal of effort has been expended in preparing this handbook, in order to ensure that its content is complete and accurate. However, changes and alterations to the information are possible. The IDC Herzliya Academic Authorities may cancel, alter or add courses and/or specialization programs, and generate changes in the times of lectures or in the assigned lecturer. Such changes will be published over the course of the year by various means, such as the online handbook on the IDC Herzliya website, and will apply to all IDC Herzliya students, including students of the Raphael Recanati International School, unless specified otherwise.

## Program of Studies

### **Double Major program in Entrepreneurship and Economics with Data Science**

#### **First Year / Entrepreneurship**

| Course Code | Course Name | Lecture Hours | Recitation Hours | Total Credits | Prerequisites |
|-------------|-------------|---------------|------------------|---------------|---------------|
|-------------|-------------|---------------|------------------|---------------|---------------|

#### Mandatory Courses

##### Fall Semester Courses

|       |                                                           |   |   |   |  |
|-------|-----------------------------------------------------------|---|---|---|--|
| 3911  | Entrepreneurship, Creativity and Innovation - from 0 to 1 | 3 | 2 | 3 |  |
| 26032 | Excel for data analysis                                   | 3 |   | 3 |  |
| 26027 | Computational Thinking and Programming in python          | 4 | 2 | 4 |  |
| 3913  | Research Methods                                          | 2 |   | 2 |  |

##### 26027Spring Semester Courses

|      |                                                             |   |   |   |  |
|------|-------------------------------------------------------------|---|---|---|--|
| 3941 | Financial Management and Entrepreneurial Finance            | 4 | 1 | 4 |  |
| 2457 | Entrepreneurship and innovation within organization         | 2 |   | 2 |  |
| 5081 | Practical Tools and Strategies for Entrepreneurs- Economics | 2 |   | 2 |  |

## First Year / Economics

| Course Code | Course Name | Lecture Hours | Recitation Hours | Total Credits | Prerequisites |
|-------------|-------------|---------------|------------------|---------------|---------------|
|-------------|-------------|---------------|------------------|---------------|---------------|

### Mandatory Courses

#### Fall Semester Courses

|       |                               |   |   |   |  |
|-------|-------------------------------|---|---|---|--|
| 9007  | Mathematics I for Economics   | 4 |   | 4 |  |
| 9009  | Statistics I for Economics    | 5 | 1 | 5 |  |
| 9682  | Principles of Micro Economics | 3 | 2 | 3 |  |
| 26035 | Advanced English 2            | 2 | 2 | 2 |  |

#### Spring Semester Courses

|       |                                                                    |   |   |   |  |
|-------|--------------------------------------------------------------------|---|---|---|--|
| 4415  | Introduction to R                                                  | 2 | 2 | 2 |  |
| 9008  | Mathematics II for Economics                                       | 4 |   | 4 |  |
| 9010  | Statistics II for Economics                                        | 4 | 2 | 4 |  |
| 9683  | Microeconomics I:Economic decision-making: Consumers and Producers | 4 | 2 | 4 |  |
| 9684  | Principles of Macro Economics                                      | 2 | 2 | 2 |  |
| 26035 | Advanced English 2                                                 | 2 | 2 | 2 |  |

### ASE honors program RRIS

| Course Code | Course Name | Lecture Hours | Recitation Hours | Total Credits | Prerequisites |
|-------------|-------------|---------------|------------------|---------------|---------------|
|-------------|-------------|---------------|------------------|---------------|---------------|

|      |                                                                   |     |  |   |  |
|------|-------------------------------------------------------------------|-----|--|---|--|
| 3918 | Entrepreneurship, Creativity, and Innovation - from 0 to 1 Honors | 3*  |  | 3 |  |
| 3688 | 21st century skills - honors program                              | 3** |  | 3 |  |

## **Exam Schedule**

The dates of the examinations can be found on the IDC Herzliya website under  
Students > Student Information > Course Catalog, Student Regulations and Syllabus > Search Exams

A personal examinations schedule is published at the Student's Information website (My IDC).

## Second Year / Entrepreneurship

| Course Code | Course Name | Lecture Hours | Recitation Hours | Total Credits | Prerequisites |
|-------------|-------------|---------------|------------------|---------------|---------------|
|-------------|-------------|---------------|------------------|---------------|---------------|

### Mandatory Courses

#### Fall Semester Courses

|      |                                                   |   |   |   |  |
|------|---------------------------------------------------|---|---|---|--|
| 2454 | Legal and Tax Aspects of Entrepreneurial Ventures | 2 |   | 2 |  |
| 2455 | Databases and SQL                                 | 2 | 2 | 2 |  |
| 2452 | Product Management                                | 2 |   | 2 |  |

#### Spring Semester Courses

|      |                                                              |   |   |   |  |
|------|--------------------------------------------------------------|---|---|---|--|
| 2450 | BI                                                           | 4 | 2 | 4 |  |
| 9687 | FinTech                                                      | 2 |   | 2 |  |
| 5079 | Innovation and Technological Revolutions (Data-Tech)         | 2 |   | 2 |  |
| 3220 | Fundamentals Of Accounting                                   | 3 | 2 | 3 |  |
| 2451 | Marketing and Digital Marketing Management for Entrepreneurs | 2 |   | 2 |  |
| 2686 | Introduction to data science                                 | 3 | 2 | 4 |  |

### ASE honors program RRIS

| Course Code | Course Name | Lecture Hours | Recitation Hours | Total Credits | Prerequisites |
|-------------|-------------|---------------|------------------|---------------|---------------|
|-------------|-------------|---------------|------------------|---------------|---------------|

|      |                                            |     |  |   |  |
|------|--------------------------------------------|-----|--|---|--|
| 5273 | Organizational Innovation - honors program | 3*  |  | 3 |  |
| 5274 | Entrepreneurship                           | 2** |  | 2 |  |

## Second Year / Economics

| Course Code | Course Name | Lecture Hours | Recitation Hours | Total Credits | Prerequisites |
|-------------|-------------|---------------|------------------|---------------|---------------|
|-------------|-------------|---------------|------------------|---------------|---------------|

### Mandatory Courses

#### Fall Semester Courses

|      |                                                                  |   |   |   |  |
|------|------------------------------------------------------------------|---|---|---|--|
| 6827 | Intermediate Macroeconomics: growth and business cycles analysis | 4 | 2 | 4 |  |
| 3059 | Microeconomics II- Efficiency, Markets, and Market Failures      | 4 | 2 | 4 |  |
| 9022 | Introduction to Econometrics                                     | 4 | 2 | 4 |  |

#### Spring Semester Courses

|      |                                                                                                           |   |   |   |  |
|------|-----------------------------------------------------------------------------------------------------------|---|---|---|--|
| 6828 | Intermediate Macroeconomics: micro-foundations of macro models, aggregate labor market, and fiscal policy | 4 | 2 | 4 |  |
| 5044 | Advanced Data Analysis for Economists                                                                     | 2 | 1 | 2 |  |
| 5076 | Microeconomics III- Information, Market Power, and Game Theory                                            | 4 | 2 | 4 |  |
| 9023 | Econometrics 1                                                                                            | 4 |   | 4 |  |