

## Faculty of Economic, Social and Political Sciences



### INGE1BA Baccalauréat en ingénieur de gestion (Bachelor of Business Engineering)



#### Study objectives

This programme aims at developing the students' capacity for reflection, critical analysis and decision-making in the domains of Economic and Business Sciences, of Sciences and of Technology.

It is based, on the one hand, on the acquisition of knowledge within the disciplines of Economic Science, Business Engineering Sciences and Social Sciences, the Exact Sciences and Technology, and, on the other hand, on the know-how acquired through a pedagogical approach which fosters the active participation of the students in their own training. This approach is rooted in the reality of economic life and organisations.

On a general level, one year is dedicated to the acquisition of knowledge in the general disciplines belonging to the ESPO Faculty and the Exact Sciences, one year is dedicated to the specific developments of those disciplines with respect to Economic Analysis and Business Science, and one year is dedicated to the study of economic and business problems and methods as well as to the study of technologies. In comparison with the bachelor's programme of Economic and Business Sciences, this programme is much more clearly orientated towards the study and application of the quantitative methods of Business Engineering.

#### General presentation of the programme

The programme is organised in the form of one single line of studies of 180 credits, into which are integrated 26 credits in Sciences and Technology.

The programme comprises courses in Sciences and Technology, and an intensive course in Mathematics and Statistics. Nevertheless, the programme is still conceived in such a way as to satisfy the minimum demands of each of the subjects within the pool of subjects common to the ESPO. This thus allows for the same possibilities of re-orientation as the other ESPO bachelor programmes, thanks to the recognition of the equivalence of the credits.

In addition, those students admitted - after the selection process - to the "Creating a Company" orientation, must add one extra course to their programme for ( a maximum of ) 9 credits. This "Creating a Company" orientation is spread over the third year of the Bachelor's and over the two years of the master's of Business Engineering.

#### Evaluation

Ongoing evaluation : exercises and personal pieces of work

Written and oral exams

#### Admission to the programme

The programme is accessible to those possessing a secondary school-leaving certificate (c.f. the "Access to Studies" part of the study programme for a precise description of the admission conditions and their particular cases.

The conditions and regular admission requirements are specified on the web page "Access to Studies":

<http://www.ucl.ac.be/etudes/libres/en/acces.html>

#### Positioning of the programme

##### Positioning of the programme within the University cursus

The bachelor's degree entitles direct access to the master's of Business Engineering, as well as to any general master's in Economics or Business Economics.

To be able to access the master's of Business Engineering, the student needs to have completed an "initiation to labour employment", and to have drafted an analytical report on the subject. This initiation comprises one week of mainly manual work experience in an entrepreneurial or associative environment (outside of the programme).

##### Other studies available upon completion of the programme

The bachelor's degree in Business Engineering entitles access to the master's organised by the other departments of the Faculty of Economics, Social and Political Sciences or by other Faculties, subject to respect of the conditions and prerequisites specified by the bodies responsible for organising the programme in question. In the case of lacking credits, these may be made up either by being added to the master's programme (if the number of lacking credits does not surpass 15), or by the completion of a complementary/preparatory programme before embarking on the master's.

**Useful contacts****Programme management**

SESP Secrétariat du 1er cycle (ESPO)

Contact persons for the ESPO: Anne-Françoise Mariscal, Dominique Arnould

Program Supervisor : Michel De Wolf (IAG)

**Study Advisor**

Cécile Delannay

**Exam Jury**

President : Michel Dorban

Secretary : Jean-Marie Yante

**Detailed content of standard programme**

## INGE 11BA First year of studies

**First quadrimester (27 Credits)****Foundation studies**

<u>ESPO1111A</u>	Political Economics (Part 1)[40h+10h] (4 credits) (in French)	N.
<u>ESPO1113A</u>	Sociologie et anthropologie I : 1ère partie[40h+0h] (4 credits) (in French)	Jean De Munck, Matthieu de Nanteuil-Miribel
<u>ESPO1110</u>	Study Skills Seminar[15h] (in French)	Michel Dorban
<u>ESPO1120</u>	Psychology[30h] (3 credits) (in French)	René Zayan
<b>Specific studies</b>		
<u>ESPO1112</u>	Principles of Accountancy[30h+15h] (4 credits) (in French)	Karine Cerrada Cristia, Yves De Rongé (coord.), Michel De Wolf, Michel Gatz
<u>INGE1114</u>	Mathematics I: analysis[30h+30h] (4 credits) (in French)	Camille Debiève, Yves Félix
<u>INGE1115</u>	Chemistry (Part 1)[40h+20h] (5 credits) (in French)	Bernard Tinant
<b>Language course</b>		
<u>ANGL1330</u>	Intermediate English (first part)[30h] (3 credits)	Philippe Detry, Isabelle Druant, Marie Duzel, Dominique François, Virginie Godin, Claudine Grommersch, Sandrine Mulkers, Marc Piwnik, Severine Schmit, Colleen Starrs, Cindy Tréfois

**Second quadrimester (33 Credits)****Foundation studies**


<u>ESPO1114A</u>	Science politique : 1ère partie[30h] (3 credits) (in French)	André-Paul Frogner, Jacques Herman, Françoise Piérard
<u>ESPO1111B</u>	Political Economics (Part 2)[20h+20h] (4 credits) (in French)	Paul Belleflamme, Jean Hindriks
<u>ESPO1125I</u>	Séminaire de travail universitaire en Ingénieur de gestion[15h+15h] (5 credits) (in French)	N.
<u>ESPO1122</u>	Foundations of Law[40h] (3 credits) (in French)	Gilberte Marchal, Gilberte Marchal (supplée Henri Simonart), Henri Simonart, Marc Verdussen
<u>INGE1113</u>	Probability[30h+15h] (4 credits) (in French)	Michel Denuit, Léopold Simar, Léopold Simar (supplée Michel Denuit)
<u>INGE1121</u>	Mathematics II: algebra and matrix calculus[30h+30h] (4 credits) (in French)	Camille Debiève, Yves Félix

**Specific studies**

<u>ECGE1122</u>	Management Accountancy[20h+15h] (3 credits) (in French)	Yves De Rongé (coord.), Michel De Wolf
<u>INGE1122</u>	Physics 1[40h+20h] (5 credits) (in French)	Denis Favart

**Language course : the student will keep the same course throughout the entire bachelor programme**

One of the following courses :

<u>NEER1330</u>	Intermediate, first part[30h] (2 credits)	Brigitte Goidts (coord.)
<u>ALLE1330</u>	German - intermediate level, first part[30h] (2 credits)	Ann Rinder
<u>ESPA1330</u>	Spanish - Intermediate level (1st part)[45h] (2 credits) 	Isabel Baeza Varela, Paula Lorente

## INGE 12BA Second year of studies

**Foundation studies**

<u>INGE1214</u>	Further Statistics[30h+15h] (4 credits) (in French)	Isabelle De Macq (supplée Michel Denuit), Michel Denuit, Christian Hafner Léopold Simar
<u>INGE1222</u>	Multivariate Statistical Analysis[30h+15h] (4 credits) (in French)	
<u>ECGE1225</u>	Game theory and decision analysis[30h] (4 credits) (in French)	Pierre Dehez
<u>INGE1215</u>	Mathematics: Applied Mathematics and Optimisation[30h+15h] (4 credits) (in French)	Bernard Fortz

**Specific studies**

<u>ECGE1221</u>	Commercial law and taxation[60h] (6 credits) (in French)	Michel De Wolf, Patrick De Wolf
<u>ECGE1222</u>	Microeconomics[45h+15h] (5 credits) (in French)	François Maniquet, Jacques-François Thisse
<u>ECGE1212</u>	Macroeconomics[45h+15h] (5 credits) (in French)	Philippe Monfort, Henri Sneessens
<u>INGE1221</u>	Econometrics[45h+15h] (5 credits) (in French)	Sébastien Van Bellegem
<u>ECGE1211</u>	Financial Statement Analysis[30h+15h] (3 credits) (in French)	Yves De Rongé, Michel De Wolf
<u>ECGE1215</u>	Information Technology in Economics and Management[30h+20h] (4 credits) (in French)	Marco Saerens
<u>INGE1213</u>	Physics[40h+20h] (5 credits) (in French)	Piotr Sobieski
<u>INGE1223</u>	Chemistry[20h+10h] (3 credits) (in French)	Agnès Gnagnarella, Bernard Tinant

**Language course**

<u>ANGL1332</u>	Intermediate English (part 2)[60h] (4 credits)	Ahmed Adriouèche, Estelle Dagneaux, Marielle Henriët, Sandrine Mulkers, Françoise Stas, Albert Verhaegen
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One of the following courses: (the student will keep the same course throughout the entire bachelor programme)

<u>NEER1332</u>	Dutch course for students in second year of the Bachelor's degree in economic science and management[60h] (4 credits)	Nicole Engelen (coord.)
<u>ALLE1331</u>	German - intermediate level, second part[60h] (4 credits)	Ann Rinder
<u>ESPA1331</u>	Spanish Intermediate (2nd part)[45h] (4 credits)	Isabel Baeza Varela, Paula Lorente

**INGE 13BA Third year of studies****Foundation studies**

<u>ESPO1321</u>	Economic, Political and Social Ethics[30h] (3 credits) ▲ (in French)	N.
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**Specific studies**

<u>ECGE1313</u>	European Economics[30h] (4 credits) ▲ (in French)	N.
<u>INGE1311</u>	Finance[60h] (6 credits) ▲ (in French)	N.
<u>INGE1321</u>	Marketing[60h] (6 credits) ▲ (in French)	N.
<u>ECGE1321</u>	Human Management[60h] (6 credits) ▲ (in French)	N.
<u>INGE1312</u>	Production and Operations Research[60h] (6 credits) ▲ (in French)	N.
<u>INGE1313</u>	The Theoretical Foundations of Management[60h] (6 credits) ▲ (in French)	N.
<u>ECGE1220</u>	Management Computer Science and Information Systems[45h+15h] (5 credits) (in French)	Jean Vanderdonckt
<u>INGE1314</u>	Technological Research and Development[80h] (8 credits) ▲ (in French)	N.

**Language course**

<u>ANGL1532</u>	Advanced Business English[60h] (5 credits)	Dominique François, Philippe Neyt, Henri November, Colleen Starrs, Françoise Stas, Albert Verhaegen
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One of the following courses: (the student will keep the same course throughout the entire bachelor programme)

<u>NEER1532</u>	Advanced Dutch for Business Studies[60h] (5 credits)	Christel Vandegoor (coord.)
<u>ALLE1531</u>	A préciser	
<u>ESPA1531</u>	A préciser	