Undergraduate level

L1 = year 1   L2 = year 2   L3 = year 3

- Business & Economics
- Computer science
- English department: English/American literature and contemporary history, didactics and Linguistics
- Human sciences
- Law
- Sciences:
  * biology
  * biology and chemistry
  * multi-disciplinary: physics, mechanics, chemistry
  * Maths and computer science
- Social sciences
Business at the business school IAE (L3)
(all 4 ECTS)

Semestre 1
- Organisational Behaviour
- Contemporary Economics
- Cross Cultural Management
- Team Building
- Corporate Finance
- International Marketing
- Managerial Accounting and Control
- American Century and the Rise of Giant Firms

Semestre 2
- Business Game
- Strategic Management
- Corporate Social Responsibility
- World Economic Cycles and Value Chains
- International Business
- Budgeting and Control
Business at the university technical institute (IUT II) Diploma in Business administration (L3) (all 3 ECTS)

Core subjects

**Semester 1**
- International business communication
- Entrepreneurship
- International finance
- Current marketing challenges
- Creativity tools for business
- French language for international students
- French culture

**Semester 2**
- European Culture
- Project management
- Sociology of Consumption
- Human Resources
- Finance
- economics
- Web publishing 1

**Electives**
- International management
- Business and marketing
- Communication
Diploma in Business Administration: details of electives

**International management:**
- Business innovation
- Buying for business
- International business opportunities and challenges
- Business case
- Geopolitics

**Communication:**
- Export marketing
- Strategic marketing
- Corporate social responsibility
- Case study
- Media
- Web publishing 1
- Intercultural communication

**Business and marketing:**
- Multicultural competencies: learning global dexterity
- Marketing and web marketing
- Customer relationship management
Economics

Semestre 1

- Territorial development (M1 Economie du développement parcours ETD et M1 Sciences sociales)

- Applied game theory (M1 Economie de l'environnement de l'énergie et des transports)

- Regional integration (M1 Economie du développement parcours GODI)

Semestre 2

- Microeconomics of competitiveness (M1 Economie de l'environnement de l'énergie et des transports)

- International macroeconomics (M1 Economie du développement)
Professional degree in Computer networks and telecommunications (L3)

Semester 1
360 hours tuition in the (26 ECTS) + academic project or thesis (5 ECTS),

**General courses**
- Communication skills (2 ECTS)
- Project management (2 ECTS)

**Fundamental scientific and technological courses**
- Computer Networks (2 ECTS)
- System administration (2 ECTS)
- Digital communications and trans. medium (3 ECTS)
- Network Security (2 ECTS)

**Specialised Scientific and technological courses**
- VOIP – real time flows (1 ECTS)
- Mobile Transmission systems (3 ECTS)
- Security of networking infrastructures (2 ECTS)
- Advanced Computing Networks (2 ECTS)
- Wireless Networks (2 ECTS)

**Academic project** (5 ECTS)

Semester 2
60 hours tuition in the 2nd semester (4 ECTS) + 2nd part of Academic project (1 ECTS) + work placement in a company/ research laboratory (25 ECTS)

- Introduction to Internet Legislation (2 ECTS)
- Database management systems (2 ECTS)
- Academic project audit (1 ECTS)
English Department

- English literature L1, L2, L3 (3 ECTS each)
- American literature L1, L2, L3 (3 ECTS each)
- English contemporary history L1, L2, L3 (3 ECTS each)
- American contemporary history L1, L2, L3 (3 ECTS each)
- Heritage L1, L2, L3 (3 ECTS for L1 & L2 and 4 ECTS for L3)
- Translation classes L1, L2, L3 (3 ECTS)

- Didactics for English as a foreign language:
  - teaching English in primary schools L1 (3 ECTS)
  - didactics and teaching English L2 (3 ECTS)
  - creating and lesson planning L3 (3 ECTS)
Linguistics

**Grammar and syntax**
- VERBS: morphology; tense, aspect, modality. L1-S1 (1st year, 1st semester). 3 ECTS
  L2-S3 (2nd year, 1st semester). 1.5 ECTS
- SYNTAX II. Coordination and subordination. Information packaging in the clause: passive voice, existential structures, clefts. L2-S4 (2nd year, 2nd semester). 1.5 ECTS

**Phonetics**
- The International Phonetic Alphabet (for English): vowels and consonants. Difference between spelling and pronunciation: homographs, homophones, silent letters. L1-S1: 2 ECTS
- IPA (continued). Stress patterns (grammatical words, polysyllabic words, prefixes and suffixes).
  L1-S2: 2 ECTS
  L2-S3: 2 ECTS
- Characteristics of spoken English: connected speech phenomena (difference between citation forms and words in context; assimilation, liaison, reduction, …). L2-S4: 2 ECTS

**Linguistic analysis**
- Analyzing linguistic forms in context: syntactic structures vs. pragmatic function: interrogatives/questions, exclamatives/exclamation; coordination; adverbs. L2-S3: 2 ECTS

**History of linguistics** L3-S6: 2 ECTS
Human sciences
(a multi-disciplinary degree in philosophy, history, geography and politics)

Semester 1
- Shades of Humanity (a philosophical approach to various facets of human nature and human history)
  L1  6 ECTS
- Contemporary issues (society and territories: environmental ecology, the heritage sector, NGO activity…)
  L2  6 ECTS
- Debating in English (short activities and longer debates with a focus on the topic of the world of work)
  L3  6 ECTS

Semester 2
- Contemporary American History (HISTORY) L1  5 ECTS
- Politics, culture and society (American and British systems: disrupted democracies? –social film)
  L1  6 ECTS
- Critical Urban Studies (GEOGRAPHIE) L2  5 ECTS
- Justice and territories (multidisciplinary approach to a present-day territorial issue, with a focus on historical and current aspects of post-colonial New Zealand)
  L2  6 ECTS
- Introduction to Gender Studies (PHILOSOPHIE) L3  5 ECTS
- Speeches of Social Justice (historical and linguistic study of speeches related to 19th and 20th century political and social movements)
  L3  6 ECTS
Law

Diploma in Legal studies
(all courses 4 ECTS)

Semester 1
- A historical introduction to French law
- French judicial institutions
- Public law 1
- Intellectual property law
- International law and international relations
- The European union legal system
- Legal writing and advocacy
- International contract law

Semester 2
- History of Human rights
- International protection of human rights
- Public law 2
- Criminal litigation
- European business law
- Private international law
- Legal protection for biodiversity
- Public contract law in a comparative approach
Chemistry and Biology (L1 and L2)

- **Semester 1**
  - Biochemistry 1
  - Structure of matter (L1)
  - Instrumental optics (L1)
  - Cell biology 2 (L2)
  - Genetics (L2)
  - Chemical thermodynamics and kinetics (L2)
  - Statistics and probability for life sciences (L2)

- **Semester 2**
  - Cell Biology 1 (L1)
    - Organism Biology and Evolution (L1)
    - General chemistry (L1)
    - Computer sciences (L1)
    - Electrical transport phenomena (L1)
  - Biochemistry 2 (L2)
  - Physiology (L2)
  - Physical chemistry of aqueous solutions (L2)
  - Scientific topics L2)
Biology (L1 and L2)

Semester 1
- Biochemistry 1
- Structure of matter (L1)
- Instrumental optics (L1)
- Computer science applied to solving problems in life and environmental sciences (L1)
- Cell biology 2 (L2)
- Genetics (L2)
- Statistics and probability for life sciences (L2)

Semester 2
- Cell Biology 1 (L1)
- Organism Biology and Evolution (L1)
- General chemistry (L1)
- Electrical transport phenomena (L1)
- Experimental methods in biochemistry and cell biology (L1)
- Biochemistry 2 (L2)
- Physiology (L2)
- Scientific topics L2)
- Physical chemistry of aqueous solutions for biologists (L2)
- Experimental project in biology (L2)
Physics- Mechanics- Chemistry (L1 & L2)

Semestre 1
• Struture of matter - 6 crédits (L1)
• Computer sciences methods and programming techniques - 6 crédits (L1)
• Matrices and functions of multiple variables - 6 crédits (L2)
• Thermodynamics - 3 crédits (L2)
• Chemical thermodynamics and kinetics - 6 crédits (L2)

Semestre 2
• Advanced caculus - 6 crédits (L1)
• General chemistry - 6 crédits (L1)
• Electricity : AC - 3 crédits (L1)
• Geometrical optics - 3 crédits (L1)
• Oscillation and waves - wave optics - 6 crédits (L2)
• Experimental topics - 3 crédits (L2)
• Modern physics - 3 crédits (L2)
• Scientific culture - 3 crédits (L2)
• Physical chemistry of aqueous solutions - 6 crédits (L2)
Maths and computer sciences (L1 & L2)

Semestre 1:
- Computer science methods and programming techniques (L1):
- Automation and languages (L2)
- Series and integrals (L2)

Semestre 2:
- Algorithms and functional programming (L1)
- Analysis (L1)
- Introduction to logic (L2)
- Software project (L2)
- Suites, function and Fourier series (L2)
Social Sciences

Semester 1

- **Department of Education Sciences:**
  - Games and Simulations in Vocational Training. L3 (2.5 credits)
  - Cognitive Ergonomics of Document Design, professions in the Book and Publishing Sector, M2 (4 credits)

- **Department of Maths and Informatics Applied to Human and Social Sciences**
  - AI and multi-agent systems. M1 (3 credits)
  - Software Engineering. M1 (3 credits)
  - Computational Cognitive Modelling. M1 (3 credits)
  - Theory of complex systems. M2 (3 credits)

- **Department of Psychology:**
  - Cognitive and neuropsychological tests L3 (3 credits)
  - English for psychologists L3 (3 credits)

Semester 2

- **Department of Education Sciences:**
  - Analysis of learning technologies. L3 (4 credits)
  - English for Education Scientists. L2 or L3 (3 credits)

- **Department of Maths and Informatics Applied to Human and Social Sciences (Miashs):**
  - Formal Language and Theory of Computation. L2 (3 credits)
  - Databases. M1 (3 credits)
  - Human Computer Interaction. M1 (3 credits)
  - Logic Programming. L2 (3 credits)

- **Department of Psychology:**
  - Psychopathology of emotions. L2 (2 credits)
  - Neuropsychological tests. L3 (2 credits)
  - English for Psychologists. L2 (3 credits)

- **Department of Sociology:**
  - Sociology of daily life. L2 (3 credits)
  - Ethnomethodology. L3 (4 credits)
  - English for sociologists. L2 (or M2 course) (3 credits)