

Catalogue des cours dispensés en anglais

English-taught courses

2017/2018

Ce document est une compilation des cours enseignés en anglais dans les composantes de l'université d'Angers. Il s'agit de cours accessibles aux étudiants inscrits régulièrement à l'Université d'Angers et aux étudiants d'échange (Erasmus+, Isep, accords bilatéraux). Afin que les ECTS soient validés, l'étudiant d'échange devra avoir établi, avec son tuteur de l'établissement d'origine et avant son arrivée, un Learning Agreement où ses choix de cours seront indiqués. Comme précisé en haut de page de chaque section de ce catalogue, l'étudiant devra suivre une UE (Unité d'Enseignement) complète ou bien sélectionner seulement la matière enseignée en anglais. Dans la mesure où les cours en anglais n'appartiennent pas au domaine d'enseignement encadré par un accord Erasmus+, l'inscription à ceux-ci est soumise à l'accord de l'enseignant concerné.

This is a compound of all English-taught courses offered at the Faculties of the University of Angers. They are courses open to students registered at the University of Angers as well as to exchange students (Erasmus+, Isep, bilateral agreements). To receive full credit for all ECTS, the exchange student needs to establish, together with his tutor and before his mobility, a Learning Agreement with all his/her course selection. As stated at the top of the page of each section of this catalogue, the student will have either to follow a whole module (UE or Unité d'Enseignement) or to pick individual English-taught courses. If the English-taught course is not part of the teaching field covered by the Erasmus+ agreement, the student's request is submitted for authorization by the relevant teacher.

GLOSSAIRE / Glossary

CC : **Contrôle Continu**. *Ongoing evaluations.*

CM : **Cours Magistral**. Il s'agit d'un cours théorique, en amphithéâtre, présenté sous forme de conférence par le professeur et pendant lequel l'étudiant prend des notes. Ces cours font souvent l'objet de brochures polycopiées, éditées par le professeur, internes à l'UFR (les « polys ») et qui sont mises à disposition en fin de session pour la préparation des examens. *Cours Magistral. It is a theoretic course, where the professor lectures while students take notes. Many teachers produce lecture notes or course packs (known in French as polys), which are made available in order to help students to prepare their exams.*

CT : **Contrôle Terminal**. *Final Exam.*

DD: **Double Master**. *Double Diploma.*

ECP : **Éléments Constitutifs Pré-professionnels**. Dans l'UFR de Lettres, Langues et Sciences Humaines, ils sont obligatoires à partir de L2. Leur intérêt est de faire rentrer les études de l'étudiant dans un cadre professionnel plus précis. / *Teaching units meant to give professional insight to students (to be chosen from a list according to one's personal career goals and interests).*

ECR : **Éléments Constitutifs de Recherche**. Dans l'UFR de Lettres, Langues et Sciences Humaines, en Semestre 5 et Semestre 6, ils sont obligatoires et forcément associés aux ECP (Éléments Constitutifs Pré-professionnels). / *Teaching units meant to give professional insight to students (to be chosen from a list according to one's personal career goals and interests).*

ECTS : **Système européen de transfert et d'accumulation de crédits**. *European Credits Transfer System.*

F / S: 1er cycle / 2^{ème} cycle. *First / Second level.*

TD : **Travaux Dirigés**. C'est une forme d'enseignement qui permet d'appliquer les connaissances apprises pendant les cours théoriques ou d'introduire des notions nouvelles. En groupes restreints, les étudiants travaillent individuellement sur des exercices en présence du professeur, qui les suit et les corrige. Les TD sont obligatoires, à la différence des cours magistraux où les absences ne sont pas contrôlées. *Travaux Dirigés (tutorials). Small-group sessions where students explore and deepen topics raised during the lectures through individual written exercises. Unlike lectures, attendance is compulsory.*

TP : **Travaux Pratiques**. Type d'enseignement fondé sur l'apprentissage pratique avec, en particulier, la réalisation d'expériences permettant de vérifier et compléter les connaissances dispensées dans les cours théoriques. Les TP ont souvent lieu dans des salles affectées à ces travaux (type laboratoire). *Travaux Pratiques (labs). Classes held in laboratories where academic and scientific concepts are put into practise and tested.*

UECG : **Unité d'Enseignement de Culture Générale**. / *Teaching Unit on General Culture subjects.*

UEF : **Unité d'Enseignement Fondamental** / *Essential Teaching Course.*

UEL : **Unité Libre d'Enseignement.** / *Elective Teaching Unit on a large variety of subjects.*

UP : **Unité de Professionnalisation** / *Professionalization Unit*

US : **Unité de Spécialisation** / *Specialization Unit*

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**Faculté de Droit, d'Économie et de Gestion (DEG) -
Faculty of Law, Economics and Business Studies**

Les matières peuvent être choisies individuellement, mais il est préférable de les choisir parmi le même groupe, pour éviter des soucis de planning.
Courses can be picked individually although schedule overlapping can be avoided if choosing a whole unit.

S1 – S3 – S5 – S7 and S9 concern classes taught from beginning of september to Christmas holidays
S2 – S4 – S6 – S10 concern classes taught from beginning of January to mid-May (S10 ends beginning of April)
S8 concerns classes taught from mid-April to end of June

Courses taught at M1 or M2 Level can be opened to undergraduate students (F/S) if they are enrolled in their third or fourth year and if they have the prerequisites. We give priority to Double Diploma (DD) students.

Diploma label	Level	Code	Semester	AVAILABLE TO	Titles	Hours	ECTS	Course type	Exam	
Licence Sciences Économiques et de Gestion / Bachelor Economics and Business Studies	Licence 1 Sciences Économiques et de Gestion / 1st year Bachelor Economics and Management Sciences									
	L1	L1 SEG	S1	F	Contemporary Economic Issues	18	3	CM	CC ou CT	
	Licence 3 option Management International / 3rd-year Bachelor option International Management									
	L3	L3 MI	S5	F	Introduction to Intercultural Management	10	2	CM	CC ou CT	
		L3 MI	S6	F	Financial Globalization	20	2	CM	CC ou CT	
				F	Introduction to International Business Law	10	2	CM		
	F	International Economics	20	2	CM					

Diploma label	Level	Code	Semester	AVAILABLE TO	Titles	Hours	ECTS	Course type	Exam	
Master Management et Commerce International / Master International Business and Management	Master1 option Management des Affaires Européennes et Internationales / M2 option European and Int'l Mgmt									
	M1	M1 MAEI	S7	F/S	European and International Management	15	2	CM	CC ou CT	
				F/S	European and International Marketing	20	3	CM		
				F/S	Operations Management	25	3	CM/TD		
	M1	M1 MAEI	S8	F/S	Corporate Finance	20	3	CM	CC ou CT	
				F/S	Change Management	15	2	CM		
				F/S	International Team Management	15	2	CM		
				F/S	Brand Management	20	3	CM		
				F/S	New Product Development	15	2	CM		
				F/S	International Monetary Systems	15	2	CM		
	M2 spécialité Management Financier et Contrôle Int'l / M2 option Int'l Financial Management and Control									
	M2	M2 MFCI	S9	S	International Financial Business Law	15	2	CM	CC ou CT	
				S	Corporate Valuation Methods	20	4	CM		
				S	Management Control Systems	20	4	CM		
				F/S	Cross-cultural Business	15	2	CM		
				S	Supply Chain Management	20	3	CM		
				F/S	International Financial Business Game	15	2	CM		
S				Corporate Accounting	15	2	CM			
S	International Accounting	25	3	CM						
M2	M2 MFCI	S10	S	Advanced Corporate Finance	30	4	CM	CC ou CT		
			S	Cash & Risk Management	20	2	CM			
			S	Financial Communication	20	3	CM			
			S	Management Project of Information Systems	30	4	CM+TD			
			S	Exchange Risk Management	15	2	CM			

M2 spécialité Management International et Marketing / M2 option International Management and Marketing										
M2	M2 MIM	S9	DD	International Business Law	15	3	CM	CC ou CT		
			DD	International Management 2 : Analysis and Practices	15	4	CM			
			DD	Cross-cultural Business	15	3	CM			
			DD	Supply Chain Management	20	4	CM			
			DD	E-Marketing	25	4	CM			
			DD	New Tendencies in Marketing	15	2	CM			
M2	M2 MIM	S10	DD	International Consumer Behaviour	30	4	CM	CC ou CT		
			DD	International Product Management	20	2	CM			
			DD	Managing International Marketing Channels	20	3	CM			
M2 spécialité Management International des Ressources Humaines / option Human Resources Management										M2
M2	M2 MIRH	S9	S	Compensation Policy	15	2	CM	CC ou CT		
			S	Performance Appraisal	12	2	CM			
			F/S	Regulations	12	3	CM			
	M2 MIRH	S10	S	Organizational Behaviour	21	3	CM	CC ou CT		
			S	Human Resource Management Policies	15	3	CM			
			F/S	Intercultural Management	15	3	CM			
			S	The European Social Dialogue	6	1	CM			
			F/S	Strategic Issues and Best Practices	12	2	CM			
			F/S	Ethics and Social Responsibility	15	3	CM			
			F/S	Diversity Management	12	2	CM			
			F/S	Health and Safety at Work	12	2	CM			
S	New Developments in Career Management	12	2	CM						

Diploma label	Level	Code	Unit	AVAILABLE TO	Titles	Hours	ECTS	Course type	Exam	
Master Stratégies et Ingénierie Économiques / Master Strategic and Economic Engineering	M1	M1 SIE	S7	F/S	Economics of Knowledge and Information	18	2	CM	CC ou CT	
		M1 SIE	S8	F/S	Economical Geography	18	3	CM	CC ou CT	
	M2 spécialité Chargé de Développement : Entreprises et Territoires Durables (CDET) / M2 option International Strategy of Territorial Development									
	M2	M2 CDET	S10	S	International Attractivity and Territorial Marketing	10	4	CM	CC ou CT	
	M2 spécialité Ingénierie Économique / M2 option Economic Engineering									
	M2	M2 ING	S9	S	Theory of Incentives	24	4	CM	CC ou CT	

Field	Level	Code	Unit	Semester	Titles	Hours	ECTS	Course type	Exam
Anglais (LCE) / English Language	L1	UEF AN11	English Language	S1	Introduction to Translation	12h	8		CC/ET
					Grammatical Translation into English	12h			CC/ET
					English Language Phonetics and Phonology	12h			CC/oral
					Oral Comprehension	12h			CC/oral
					Communication	12h			CC/oral
	L1	UEF AN12	Foreign cultures	S1	Literature in English	12h	8		ET
					Reading Literary Texts	12h			ET
					History of Great Britain	12h			ET
					American History	12h			ET
	L1	UEF AN21	English Language	S2	Translation into English	12h	8		CC/ET
					Translation into French	12h			CC/ET
					Grammar and Translation	12h			CC/ET
					English Language Phonetics and Phonology	12h			CC/oral
					Oral Comprehension and Pronunciation	12h			CC/oral
	Communication	12h		CC/oral					
	L1	UEF AN22	Foreign Cultures	S2	English Literature	12h	8		ET
					Survey of English Literature	12h			ET
					British History	12h			ET
					American History	12h			ET
	L2	UEF 31	English Language	S3	Translation into English	12h	8		CC/ET
Translation into French					12h			CC/ET	
Grammar					12h			CC/ET	
Phonology					12h			CC/oral	
Comprehension and Pronunciation					12h			CC/oral	
L2	UEF 32	Foreign Cultures	S3	Literary analysis	12h	8		ET	
				Survey of English Literature	12h			ET	
				Complete Work of Literature	12h			ET	
				American History	24h			ET	
				American Institutions	12h			ET	
L2	UEF 41	English Language	S4	Translation into English	12h	8		CC/ET	
				Translation into French	12h			CC/ET	
				Grammar	12h			CC/ET	
				Phonology	12h			CC/oral	
				Comprehension and Pronunciation	12h			CC/oral	
Communication	12h		CC/oral						
L2	UEF 42	Foreign Cultures	S4	Literary Analysis	12h	8		ET	
				Survey of English Literature	12h			ET	
				Complete Work of Literature	12h			ET	
				British History	24h			ET	
				British Institutions	12h			ET	
L3	UEF 51	English Language	S5	Translation into English	12h	10		CC/ET	
				Translation into French	12h			CC/ET	
				Grammar	12h			CC/ET	
				Creative Writing	12h			CC/ET	
				Phonology	12h			CC/oral	
				Comprehension and Oral Expression	12h			CC/oral	
Communication	12h		CC/oral						
L3	UEF 52	Foreign Cultures	S5	English Literature	12h	8		ET	
				Complete Work of British Literature	12h			ET	
				Complete Work of American Literature	12h			ET	
				Stylistics	12h			ET	
				Culture - US or GB	12h			ET	
				Cultural Theme - GB	12h			ET	
Cultural Theme - USA	12h		ET						

Anglais (LCE) / English Language	L3		ECR	S5	Methods of Text Commentary - Literary and Civilisation	12h	2		CC/ET
	L3		ECR	S5	Research Project - Literary and Civilisation	12h	2		CC/ET
	L3	UEF 61	English Language	S6	Translation into English	12h	10		CC/ET
					Translation into French	12h			CC/ET
					Grammar	12h			CC/ET
					Phonology	12h			CC/oral
					Oral Comprehension and Expression	12h			CC/oral
					Cultural Communication	12h			CC/oral
	L3	UEF 62	Foreign Cultures	S6	English Literature	12h	14		ET
					Complete Work of British Literature	12h			ET
Complete Work of American Literature					12h			ET	
Symbols and Figures of Style					12h			ET	
Culture - US or GB					12h			ET	
Cultural Question - GB					12h			ET	
				Cultural Question - USA	12h			ET	
L3		ECR	S6	Research Project - Literary and Civilisation	12h	2		CC/ET	
Master Research Littératures, Langues, Patrimoines et Civilisations									
M1		Disciplinary Seminar	S1	Theatrical tropes in Angela Carter	10h	12		CC	
				The Sun Also Rises by Ernest Hemingway	10h			CC	
				British Icons	10h			CC	
				Movies and the American South	10h			CC	
M1		Disciplinary Seminar	S2	Cinematographic Adaptation of Life Stories	10h	8		CC	
				From the Picaresque to the Road Movie	10h			CC	
M2		Disciplinary Seminar	S3	Modernism in British Short Stories	10h	12		CC	
				Modernism in American Short Stories	10h			CC	
M2		Disciplinary Seminar	S4	Modernity and Secularisation in GB from the XVIIth century	10h	6		CC	
				Environmental Justice in American Society and Politics	10h			CC	

Field	Level	Code	Unit	Semester	Titles	Hours	ECTS	Exam
Langues Étrangères Appliquées (LEA) / Applied Foreign Languages	L1	UEF1.1	English	S1	Introduction to contemporary British civilisation	12h	3	CC / ET
					Translation (French to English-English to French)	18h	3	CC / ET
					Oral skills	12h	1	CC / ET
	L1	UEF2.1	English	S2	Introduction to contemporary American civilisation	12h	3	CC / ET
					Translation (English to French-French to English)	24h	3	CC / ET
					Oral skills	12h	1	CC / ET
	L2	UEF3.1	English	S3	British economic geography	18h	2	CC / ET
					Translation (French to English-English to French)	24h	2	CC / ET
					Business English	12h	2	CC / ET
					Oral expression	12h	2	CC / ET
	L2	UEF4.1	English	S4	American Economic Geography		2	CC / ET
					Translation (French to English and English to French)		2	CC / ET
					Business English		2	CC / ET
					British and American Press		2	CC / ET
	L3	UEF5.1	English	S5	American civilisation : Foreign Affairs		2	CC / ET
					Translation (French to English-English to French)		2	CC / ET
					Business English		2	CC / ET
Oral and writing skills						2	CC / ET	
Oral skills						1	CC / ET	
L3	UEF6.1	English	S6	British civilisation : Foreign Affairs		3	CC / ET	
				Translation (French to English-English to French)		2	CC / ET	
				Professional/Business communication		2	CC / ET	
				Oral and writing skills		2	CC / ET	
M2	UE 5	LEA	S6	Intercultural Communication in english	20h	4	CC	

Others optional courses (undergraduate level) - UEP, UEL

L3	ECR	LEA	S5	Marketing strategy	12h	2		CC/ET
	ECP 91	LEA	S5	Marketing mix	12h	2		CC/ET
	UEL 416		S3-S5	Strange Epidemics : medicine, social memory and political history	16h	2		CC
	UEL 139		S2-S4-S6	Tackling European Issues (Connaissance de l'Europe)	16h	2		CC

Field	Level	Code	Unit	Semester	Titles	Hours	ECTS	Course type	Exam
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Licence 2 MPCIE / 2nd-year Bachelor

Mathématiques-Physique-Chimie-Informatique-Économie / Mathematics-Physics-Chemistry-Informatics-Economics	L2	UE5		S6	Heterogeneous Balances	18	2	TD/CM	ECRIT
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Field	Level	Code	Unit	Semester	Titles	Hours	ECTS	Course type	Exam
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option Ecosystèmes et Environnements Actuels et Passés (EEAP) / Ecology

Biologie / Biology	M1	UE22-S2M		S2	Discussions on Earth System Science	27	3	TD	CC oral
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Master 2 LUMOMAT (Lumière-Molécules-Matière / Light-Molecule-Mass)

Chimie / Chemistry	M2	UE1		S3	English	10	4	TP	CC
					Communication skills	10		TP	CC
					Arts, Sciences and Society	10		TP	CC
					Chemometrics, Experimental Plan	20		TD/CM	CC
	M2	UE2		S3	Modelling and Theoretical Spectroscopy	30	5	TP/CM	0,5CC + 0,5TF
					Advanced Molecular Spectroscopy, Photophysics	42		TP/TD/CM	0,7CC + 0,3TF
	M2	UE3		S3	Tutored Project	30	7	TP	Rapport écrit et soutenance
					Molecular Engineering of Pi-conjugated Systems	30		TP/TD/CM	0,7CC + 0,3TF
					Supramolecular Chemistry	40		TP/TD/CM	0,7CC + 0,3TF
	M2	UE4		S3	Heart Spectroscopy, Near-field Microscopy	25	7	TP/TD/CM	0,7CC + 0,3TF
					Molecular Material/Hybrids/Nanomaterials	60		TP/CM	0,5CC + 0,5TF
					Bio-imaging	20		TP/CM	0,7CC + 0,3TF
	M2	UE5		S3	Formulation	30	7	TP/TD/CM	0,7CC + 0,3TF
					Modified Surfaces, Interfaces, Thin Layer	20		TP/TD/CM	0,7CC + 0,3TF
					Derivative Electrochemical Technics	20		TP/TD/CM	0,7CC + 0,3TF
Organic Electronics					40	TP/TD/CM		0,7CC + 0,3TF	

Écoles d'été de Sciences - Sciences Summer Schools

Écoles d'été : du 26 juin au 7 juillet 2017.

L'enseignement des Écoles d'été listées ci-dessous est dispensé en anglais.

Summer Schools: from the 26th of June to the 7th of July 2017.

All Summer Schools listed here below are held in English.

Field	Courses	ECTS	Course type
Végétal / Plant Science Summer School	Lessons learned from the Mirage 2000 cockpit	6	Plenary conferences
	PLANT HEALTH SESSIONS:		
	Session 1: Plant pathogenic bacteria, genomics, identification, disease diagnostic		
	Session 2: Plant resistance inducers (elicitors) in crop protection memory		
	Session 3: Chemical ecology of insect crop pests		
	Session 4: Stimulants dependent germination of parasitic plants: from understanding to leverage.		
	Session 5: Weed control in intercropping systems		
	PLANT QUALITY SESSIONS:		
	Session 1: Architecture characterization of ornamental plant		
	Session 2: Fruit: Post harvest quality		
	Session 3: Phenotyping for seed germination and study of plant resistance		
	Quantitative polymerase chain reaction – A methodology to quantify defense gene expression in plant		Workshops
	Architectural analysis of plant by 3D digitization		
	Aphid olfactory choice experiments		
	Electrophysiological recordings of insect antennae		
	Characterization of parasitic plant - host plant relationship		
	Parasitic plants		
	Quantitative trait Loci		
	Microarray analysis of transcriptomic data		
	Analytical and sensory methods to assess fruit quality		
	Phenotyping: Image analysis and study of germination		
	Phenotyping: Quantification of disease severity using image analysis		Visits
	GEVES lab (French Group for the Study and Inspection of Varieties and Seeds)		
	LSV-ANSES (Plant Health Laboratory)		
	CIRM-CFBP (French Collection of Bacteria associated to Plants)		
	ITEIPMAI (Institute of Medicinal and Aromatic Plants)		
Rose garden (in Rosier s/Loire); VILMORIN site company			
Guided tour in the tropical greenhouse of the National Museum of Natural History (MNHN)			
Visit of Jean Lurçat tapestries			
Visit of a troglodyte site			
Terra Botanica			

Exceptionally this year, the Plant science summer school is dedicated to students from China.

Field	Courses	ECTS	Course type
Bio-Informatique / Bioinformatics Summer School	Warm up Session : Informatics for Beginners (R and Python)	6	Plenary conferences
	Session 1: Unix Command Initiation (optional)		
	Session 2: Introduction to protein structure prediction		
	Session 3: Environmental Genomics		
	Session 4: Artificial Intelligence for bioinformatics		
	Session 5: Association mapping and system genetics: from GWAs to function		
	Session 6: Statistics and classification on genomic data		
	Session 7: Ontologies and Biology Databases		
	Session 8: Introduction to metabolic networks		
	Session 9: Bioinformatics and Business companies		
	Case Study and Guided exercises on "Computer Modeling of Living Systems		Workshops
	Analysis of Proteomics Data		
	Biopolymers Core Facility in Nantes		Visits
Genomics and Bioinformatics Core Facility in Nantes			

This summer school is aimed at undergraduate students from 3rd year and graduate students (M. or Ph.D) in biological sciences / medicine / pharmacy / informatics / engineering or other scientific background.

Field	Courses	ECTS	Course type
FRESCO / Foraminifera Research in Coastal Environment	Overview of biological aspects of foraminifera	6	Plenary conferences
	Coastal benthic foraminifera: habitats and ecology		
	Characterisation of the foraminiferal microhabitat		
	Metabolism and genetics		
	Bay of Bourgneuf (La Couplasse) (French Atlantic coast)		Visits

The course is intended for students/researchers interested in Living benthic foraminifera in coastal environments. (Master and PhD students, Post-docs, environmental agencies)

Faculté de Médecine - Summer Schools of Medicine

Écoles d'été : du 26 juin au 7 juillet 2017.

L'enseignement des Écoles d'été listées ci-dessous est dispensé en anglais.

Summer Schools: from the 26th of June to the 7th of July 2017.

All Summer Schools listed here below are held in English.

Field	Courses	ECTS	Course type
Recherche / Research Summer School	Session 1: Brain Connectivity	6	Plenary conferences
	Session 2: Fetal Programming		
	Session 3: Nanomedicine		
	Session 4: Experimental Surgery		
	Session 5: Medical Informatics		
	Session 6: Mitochondrial Diseases		
	Session 7: Neurogeriatriy		
	Session 8: From Physiology to Integrative Spatial Medicine		
	Session 9: Genetics and Epigenetics of Brain Tumors		
	Session 10: Research in Microcirculation		
	Session 11: Research and Development of Primary Health Care		
	Session 12: Vaccination: Blessing or Curse		
	Session 13: HPV and Cancer		
	Academic Research / Industrial Research (with Companies from Atlanpole Biotherapies)		Workshops
"Medical Informatics"	Visits		
"Experimental Surgery" at the Simulation Lab.			
Oniris (Vet school and reseach labs), Nantes			
Généthon in Paris.			

This intensive training is open to all French and International students who already have completed 2 years of medicine/biological sciences/pharmacy and who may be interested in pursuing a M.D., M.D./Ph.D. or Ph.D. programs and envision a career in scientific and/or medical research.

Field	Courses	ECTS	Course type
Vasculaire / Vascular Summer School	Session 1: Anticoagulant and Gender Issues	6	Plenary conferences
	Session 2: The Neurovascular Unit: a Key for Regulation of Cerebral Blood Flow		
	Session 3: Re education and PAD		
	Session 4: Cardiopathy and Post-infarction Imaging		
	Session 5: Hormones and Vessels		
	Session 6: Lipids and Cardiovascular Risks		
	Session 7: Imaging in Vascular Medicine		
	Session 8: Mean Arterial Blood Pressure Target in Patients with Septic Shock		
	Session 9: Stem Cells and Peripheral Artery Disease		
	Session 10: Sports Cardiology and Cardiovasc Prevention		
	Session 11: The Female Vessel		
	Session 12: Vessels are under Neural Control		
	Session 13: Clinical Findings		
	Session 14: Regulation of Smooth Muscle Cell and Blood Pressure Regulation		
Visit of Mitovasc Laboratory	Visits and Workshops		
Exercice Testing in Vasc Disease from Theory to Practice			
Cardiovascular Deconditioning			
Vascular Imaging Interactive Session / Interpretation			

Open to students who have already completed 4 years of medicine, biological sciences, pharmacy veterinary school and interested in pursuing a M.D., M.D./Ph.D. or Ph.D. program.

Field	Courses	ECTS	Course type
Simulation / Simulation in Healthcare	Teaching anatomy	6	Workshops
	Cardiopulmonary auscultation		
	Bronchial fibroscopy		
	First aid procedures		
	Newborn Care and Pediatric Resuscitation		
	Gynecological examination and childbirth		
	Urinary drainage		
	Surgical Sutures		
	Laparoscopy		
	Emergency communication Gynecological examination and Childbirth		
	Breaking bad news to the patient		
	Neurological examination and lumbar puncture		
	Lessons learned from the Mirage 2000 cockpit: what can we transfer from modern combat jets in our professional activities?		
	Emergency		
	Medical Intensive Care		
	Surgical Resuscitation		
	Emergency Operating room		
	Operating room for Visceral surgery		
	Pediatric Operating room		
	Urology Operating room		
Operating room for vascular surgery	Day in situation		

This summer school is accessible to undergraduate students in the fields of Medicine.

**Études Supérieures du Tourisme et de l'Hôtellerie de l'Université d'Angers (ESTHUA, Tourisme et Culture) -
Faculty of Tourism and Hospitality Management of Angers (Tourism and Culture)**

Une UE doit être choisie en entier : il n'est pas permis de sélectionner des matières individuellement.

En cas de contrôle finale, l'examen concernera une ou plusieurs matières appartenantes à un même groupe (ex. "a" ou "b"). Si l'étudiant/e a une moyenne inférieure à 10/20 dans le même groupe, il/elle devra rattrapper chaque matière du groupe, qui a été notée au dessous de 10/20.

Modules have to be chosen as a whole: one cannot pick individual courses.

If the assesement is an exam at the end of the semester, students may be questioned on one or several of the courses within the group (i.e. "a" or "b"). Students, who are noted below a 10/20 average on one group, will have to pass again the exam on all courses of the module noted below 10/20.

Field	Level	Code	Unit	Semester	Titles	Hours	ECTS	Course type	Exam	
Tourisme / Tourism	L3	UEF1	Language and communication	S6	French Culture	16	6	CM	CC	
					French Language	32		CM	CC	
	L3	UEF2	Business Studies	S6	Tourism and the European Union	12	9		CT	
					Commercial Negotiation	12			CC	
					Consumer Behaviour	12			CT	
					Change Management	12			CT	
					Tourism Outlooks	12			CC	
	L3	UEF3	Tourism Studies	S6	Getting to Know a Tourism Destination	6	9		CT	
					History of Tourism in Europe	12			CT	
					Tourism and Transport	12			CC	
					Sports and Tourism	12			CT	
					Tourism Mngm Education and Training	12			CC	
	L3	UEF4	Heritage Studies	S6	The Loire Valley Castles	16	6		CT	
					Food Culture Management	12			CT	
					Marketing Wine and Related Products	12			CT	
					Tourism Destinations	12			CC	
	Master Gestion des Organisations du Tourisme / Tourism and Hospitality Management									
	M1	UEF1	Language and communication	S8	French as a Foreign Language for Beginners	12	3	TD	CC	
					Academic Methodology	12		TD	CC	
					Tourism in the European Union	12		TD	CC	
M1	UEF2	Tourism & Hospitality Management 1	S8	Strategic Management	12	4	TD	CC/CT		
				Service Quality Management	12		TD	CC/CT		
				E-Marketing & E-Tourism	12		TD	CC		
				Marketing for Tourism & Hospitality	24		TD	CC/CT		
M1	UEF3	Social Studies	S8	Tourist Practices	12	4	TD	CC		
				Socio-Economics of Tourism	12		TD	CC		
				Sustainable Tourism	12		TD	CC		
				International Law	12		TD	CC/CT		
M1	UEF4	Research Project	S8	Research Methodology	12	3	TD	CC		
				Applied Research Project	12		TD	CC		
M1	UEF5	Tourism & Hospitality Management 2	S8	International Tourism	12	4	TD	CC/CT		
				Project Management	12		TD	CC/CT		
				Tourist Product Distribution	12		TD	CC/CT		
				Human Resource Management	12		TD	CC/CT		
M2	UEF1	Language, Culture & Communication	S10	French as a Foreign Language (level 1 only)	32	4	TD	CC/CT		
				Strategic Communication	12		TD	CC/CT		
				Career and Professional Development	24		TD	CC/CT		
				Culture and Tourism Current Issues	12		TD	CC/CT		
M2	UEF2	Strategic Hospitality Management	S10	Destination Analysis & Management	12	8	TD	CC/CT		
				Yield Management	12		TD	CC/CT		
				Travel Service Management (apprenticeship)	12		TD	CC/CT		
				Food & Beverage Management	12		TD	CC/CT		
				Strategy Case Studies	12		TD	CC/CT		
M2	UEF3	International Studies	S10	Development of South-East Asia Current Issues	12	8	TD	CC/CT		
				Tourism in China	12		TD	CC/CT		
				Tourism in Russia and Eastern Europe	12		TD	CC/CT		
				Intercultural Management	12		TD	CC/CT		
				Emerging Issues in International Tourism (guest lecturers)	12		TD	CC/CT		
M2	UEF4	Research Project	S10	Research Methods	12	3	TD	CC/CT		
				Scientific Writing	12		TD	CC/CT		

Tourisme / Tourism	M2	UEF5	Hospitality Operations Management	S10	Wine Studies (apprenticeship)	12	7	TD	CC/CT
					Heritage & Luxury Goods International Management	12		TD	CC/CT
					Airline Management	12		TD	CC/CT
					Cruise Line Operations (in French)	12		TD	CC/CT
					Culture and Heritage Management	12		TD	CC/CT
			Unit	ECTS					
	M2		Placement	15					
	M2		Master thesis (report + presentation)	15					

École d'été de Tourisme - Tourism Summer School

École d'été : du 26 juin au 27 juillet 2017.

L'inscription s'effectue en ligne sur www.summerschool-frenchuniversitytourism.com.
totalement dispensé en anglais.

L'enseignement est

Pour s'inscrire uniquement à la semaine organisée à Angers, contacter M. Guillaume Levigueloux,
email : guillaume.levigueloux@univ-angers.fr

Summer School: from the 26th of June to the 7th of July 2017.

Applications to be made on line at www.summerschool-frenchuniversitytourism.com.

All programme is English-taught.

In order to attend only the third week, which is held in Angers, please contact M. Guillaume Levigueloux,
email : guillaume.levigueloux@univ-angers.fr

Field	Courses	ECTS	Course type
Semaine 1 / Week 1 (26.06-30.07) - UFR ESTHUA Tourisme et Culture : <i>Enhancement of the historical and cultural heritage</i>	Heritage of Loire Valley cities	3	Plenary conferences
	Tourism and Cultural heritage management		
	Heritage and theme park: Puy du Fou		
	The industrial and port heritage of Nantes		
	Discovery of Angers architecture		Applied Courses
	Châteaux of the Loire Valley (Chambord, Chenonceau, Villandry)		
	The Royal Abbey of Fontevraud		
	Special visit "Voyage à Nantes"		
Visit of Puy du Fou, the second most popular theme park in France after Disneyland Paris			
Semaine 2 / Week 2 (03.07-07/07) - CCI Maine et Loire : French Culinary Art and Gastronomy	Introduction to Loire Valley Wines tasting	3	Plenary conferences
	Discovery of dessert with Cointreau		
	How to use local vegetables in daily cuisine		
	Enhance the harmony between food and wine with regional products		
	Elaboration of cocktails with regional liquors		Applied Courses
	Visit of the distillery of the world famous Cointreau liqueur		
	Discovery of french market (Place Lafayette)		
	Visit of Saumur and of Ackerman caves		

Les matières peuvent être choisies individuellement.

Courses can be chosen individually.

Field	Level	Code	Unit	Semester	Titles	Hours	ECTS	Course type	Exam
	L2	UE3 -2	Fundamentals in Engineering	S3	Linear Algebra	48	3	CM/TD	CC
					Computer Programming in C Language	32	2	TD/TP	CC
option Sécurité Automatique et Génie Informatique (SAGI) / option Security, Automation and Computer Engineering									
	L3	UE5 -2	Fundamentals in Engineering	S5	Operations Research (comm. avec QIF)	20	1	CM/TD	CC
					Mechanical Engineering (comm. avec QIF)	32	2	CM/TD/TP	
					Industrial Instrumentation	20	1	CM/TD	
					Projet	20	1		
	UE5 -3	Automated Systems	S5	Industrial Automation	44	3	CM/TP/TD	CC	
				Dynamic Systems: Models and Simulations	36	3	CM/TD	CC	
				Motors and Servo-drives	20	2	CM/TP	CC	
	UE5 -4	Computer Engineering	S5	C Language	44	3	TP/TD	CC	
				SGBD / SQL	28	2	CM/TD	CT	
				Human Machine Interface	20	1	CM/TD	CT	
				Unix / Python	20	2	CM/TD/TP	CT	
	UE6 -3	Automated Systems	S6	Automatic control	44	4	CM/TD/TP	CC	
Micro-controller				24	2	CM/TD/TP	CC		
UE6 -4	Computer Engineering	S6	Virtual Reality	16	2	CM/TD/TP	CT		
option Qualité Innovation et Fiabilité (QIF) / option Quality, Innovation, Reliability									
	L3	UE5 -2	Applied Sciences	S5	Dependability	24	1	CM/TD	CC
					Operations Research (comm. avec SAGI)	32	2	CM/TD	
	UE5 -3	Fundamentals in Engineering	S5	Mechanical Engineering I (comm. avec SAGI)	32	2	CM/TP/TD	CC	
				Electronic Engineering I	32	2	CM/TP/TD		
				Industrial Engineering	20	2	CM/TP		
	UE5 -4	Quality and Innovation Methods	S5	Information Research and Patent Documentation	28	2	CM/TD	CC	
				Engineering Project	12	1	TP	CC	
option ISSBA / option Health and Biology									
	L3	UE5 -3	Health and Biology Engineering	S5	Water and Environment	24	2	CM/TD	CC
					DNA Technology	33	2	CM/TP/TD	CC/CT
	UE6 -3	Bioproduct Technologies	S6	Molecular Detection	30	2	CM/TD/TP	CC/CT	
				Extraction and Purification	31	2	CM/TP/TD		

Tronc commun (2ème / 3ème année) /
Common part (2nd / 3rd year)

Diploma Label	Level	Code	Unit	Semester	Titles	Hours	ECTS	Course type	Exam
option Systèmes Automatisés et Génie Informatique (SAGI) / option Automation and Computer Engineering									
Diplôme d'Ingénieur en Génie de Systèmes Industriels / Engineering Diploma	M1	UE7-2	Fundamentals in Engineering	S7	Industrial Vision	20	2	CM/TD/TP	CT
		UE7 -3A	Automated Systems	S7	Industrial Networks	32	2	CM/TD/TP	CC/TD
					Information Research and Patent Documentation	20	2	CM/TD/TP	CC
					Mobile Robotics	20	2	CM/TD/TP	CC
		UE7-4	Computer Engineering	S7	Virtual Robotics	20	2	CM/TD/TP	CT/TD
		UE8-2	Automated Systems	S8	Process Control	20	2	TD	CC
	UE8-4	Project	S8	Project	80	5			
	M2	UE9 -3A-1	Control Systems and Industrial Computing	S9	SCADA Software 2	20	2	CM/TD	CC
					Automatic Control	20	2	CM/TD	CC
		UE9 -3A-2	Human Machine Interface and virtual reality IHM RV	S9	Behavioral Human-Computer Interaction	15	1	CM/TP	CC
					Interaction and Multimodality	8	1	CM/TP	CC
		UE9 - 4A-2	Programming and software environment: IHM-RV	S9	Software Engineering II	16	1	CM/TD	CT
UE9 - 5A-2	Human Machine Interface and virtual reality IHM RV	S9	Modelling and Haptic Rendering	12	1	CM/TD/TP	CC		
option Qualité Innovation et Fiabilité (QIF) / option Quality, Innovation, Reliability									
Diplôme d'Ingénieur en Génie de Systèmes Industriels / Engineering Diploma	M1	UE7 -2	Sciences et Technologies	S7	Mechatronic and System Engineering	40	2	CM/TD/TP	CC/CT
					Industrial Optimisation	32	2	CM/TD	CC
					Reliability Models and Postmortem Analysis	40	2	CM/TD	CT
	UE8-4	Management and Law	S8	Management of Global Performance	10	1	TD	CC	
option Maintenance Immobilière et Sécurité (MIS) / option Civil Engineering									
M1	UE7-3	Maintenance and Safety Engineering	S7	Decision and Risk Control	16	1	CM/TD	CC/CT	
M2	UE9-1	Management and Decision	S9	Assistance with Decision Making	20	2	CM/TD	CC	