

GA Tech Lorraine France

Courses Offered Summer 2007

www.georgiatech-metz.fr

Chemical Engineering Majors Courses that will receive BYU Credit	
GA Tech Course	BYU approved equivalent
COA 2242	ArtHC 202 (Arts GE)
CEE 4803	CH EN Technical Elective
CHBE 3110	CH EN 373* (*1 of 2 courses required for 373 credit)
ME 3322	CH EN 373* (*2 of 2 courses required for 373 credit)
CHBE 3200	CH EN Technical Elective
COE 3001	CH EN Technical Elective
CS 3251	CH EN EMSB Elective
CS 4235	CH EN EMSB Elective
ECE 3025	CH EN Technical Elective
ECE 3075	CH EN Technical Elective
ECE 3076	CH EN Technical Elective
ECE 3085	CH EN Technical Elective
ECE 3090	CH EN Technical Elective
ECE 3710	CH EN Technical Elective
ISYE 3770	STAT 361
ME 3720	CH EN Technical Elective
MGT 3000	CH EN EMSB Elective
MGT 3150	CH EN EMSB Elective
MGT 3660	CH EN EMSB Elective
EMSB - Engineering, Math, Science or Business	

Civil and Environmental Engineering Majors Courses that will receive BYU Credit	
GA Tech Course	BYU approved equivalent
COA 2242	ArtHC 202 (Arts GE)
COE 2001	CE EN 103
COE 3001	CE EN 203

Electrical and Computer Engineering Majors Courses that will receive BYU Credit	
GA Tech Course	BYU approved equivalent
COA 2242	ArtHC 202 (Arts GE)
CS 3251	EC EN Technical Elective* (*If taken, students cannot count CS 460 as a technical elective. Students can take either CS 3251 or ECE 3076 but not both.)
CS 4235	EC EN Technical Elective* (*If taken, students cannot count CS 465 as a technical elective)
ECE 2030	EC EN 124
ECE 2040	EC EN 212* (*1 of 2 courses required for 212 credit)
ECE 3710	EC EN 212* (*2 of 2 courses required for full credit)
ECE 3025	EC EN 360 (EE Majors) (Since this course is 3 credits instead of 4 students will need to pick up 1 additional credit hour of technical elective at BYU)
ECE 3075	EC EN Technical Elective
ECE 3076	EC EN Technical Elective (*If taken, students cannot count CS 460 as a technical elective. Students can take either CS 3251 or ECE 3076 but not both.)
ECE 3085	EC EN 483
ECE 3090	EC EN Technical Elective* (*If taken, students cannot count CS 428 as a technical elective)

Mechanical Engineering Majors Courses that will receive BYU Credit	
GA Tech Course	BYU approved equivalent
CHBE 3110	ME EN Technical Elective
COA 2242	ArtHC 202 (Arts GE)
COE 2001	CE EN 103
COE 3001	CE EN 203
ECE 3085	ME EN Technical Elective
ISYE 3770	STAT 361
ME 3322	ME EN 321
MGT 3660	Technical Elective* (non ME)

**This list of approved courses (including School of Technology courses will be posted at
<http://www.et.byu.edu/news/2006/october/france.php>**

GA Tech France 2007 Summer Courses

CEE – Civil and Environmental Engr
 CHBE – Chemical and Biomolecular Engr
 COA – College of Architecture
 COE – College of Engineering

CS – Computer Science
 ECE – Electrical and Computer Engr
 FREN – French
 GTL – Georgia Tech Lorraine

HTS – History, Technology, & Society
 ISYE – Industrial & Systems Engr
 ME – Mechanical Engineering
 MGT - Management

CEE 4803 – Sustainability	3 credit hours
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Introduction to the strategies, analysis methods, and processes of environmentally conscious planning, design, construction, operation, deconstruction, and assessment of built facilities.

CHBE 3110 - Chem Engr. Thermo II	3 credit hours
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Phase and chemical reaction equilibria. Vapor-liquid, liquid-liquid, and solid-vapor phase equilibrium Fugacity and activity coefficients. Multi-reaction equilibrium.

CHBE 3200 - Transport Processes I	3 credit hours
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Fundamentals of fluid mechanics and heat transfer. The design and analysis of equipment using the principles of fluid mechanics and heat transfer.

COA 2242 - History of Art II	3 credit hours
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A survey of artistic manifestations from primitive times to the present. First semester sequence, prehistoric through Renaissance; second semester Renaissance through contemporary art.

COE 2001 - Statics	2 credit hours
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Elements of statics in two and three dimensions, free-body diagrams, distributed loads, centroids, and friction.

COE 3001 - Deformable Bodies	3 credit hours
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Stress and strain analysis applied to beams, vessels, pipes, and combined loading; stress and strain transformations; beam deflection; column buckling.

CS 3251 - Computer Networking I	
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Introduction to problems in computer networking, including error recovery, medium access, routing, flow control, and transport. Emphasis on current best practice. Includes programming of networked applications. 3 credit hours.

CS 4235 - Intro to Info Security	3 credit hours
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Terms/concepts, threats, controls; problem definition; comprehensive information security model; security for operating systems, databases, network/distributed systems; administering security; legal/ethical/policy issues.

ECE 2040 - Circuit Analysis	3 credit hours
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Basic concepts of DC and AC circuit theory and analysis.

ECE 3025 - Electromagnetics	3 credit hours
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To present the laws and applications of electromagnetics.

ECE 3075 – Random Signals	3 credit hours
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Study of random variables and random processes for applications in electrical and computer engineering. Includes an introduction to statistical filtering, parameter estimation, Markov processes.

ECE 3076 – Computer Communications	3 credit hours
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Presents the basic concepts of computer communications network protocols.

ECE 3085 – Introduction to Systems and Controls	3 credit hours
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Theory of linear time-invariant systems for continuous and discrete time. Laplace and Z-Transforms. Transfer function and state space representations. Introduction to feedback control theory.

ECE 3090 - Software for Engr System	4 credit hours
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Using computer algorithms for solving electrical engineering problems arising in various application domains. Development of effective algorithms and their implementation by object-oriented code.

ECE 3710 - Circuits & Electronics	2 credit hours
An introduction to electric circuit elements and electronic devices and a study of circuits containing such devices. Both analog and digital systems are considered.	
FREN 1001 - Elementary French I	3 credit hours
An introduction to the French language and culture of the French-speaking world. Beginning of a survey of basic French grammar and the development of the four language skills of listening, speaking, reading, and writing French. Some aspects of everyday life in the French speaking world will also be introduced.	
FREN 1002 – Elementary French II	3 credit hours
The second part of an introduction to the French language and the culture of the French-speaking world. Completion of the survey of basic French grammar and further development of the four language skills. Aspects of everyday life in the French-speaking world will be introduced.	
FREN 2001 - French Culture I	3 credit hours
Proficiency-based introduction to selected sociocultural aspects of France: geography, demography, social institutions, history, art, socioeconomic problems, and current events; incorporates grammar review. Conducted in French.	
GTL 2000 - GA Tech Lorraine Seminar	1 credit hour
Seminar discussing aspects of European cities. Part of the Georgia Tech Lorraine summer program.	
HTS 2084 - Technology and Society	3 credit hours
Analyzes social conditions that promote or retard technological activity, emphasizing role of business, the state, and scientific and engineering professions, and the emergence of consumerism.	
HTS 4823 – History of Rocketry	3 credit hours
This course introduces students to the history of rocketry from the 1930s to the 1980s.	
ISYE 3770 – Statistics & Applications	3 credit hours
Introduction to probability, probability distributions, point estimation, confidence intervals, hypothesis testing, linear regression, and analysis of variance.	
ME 3322 - Thermodynamics	3 credit hours
Introduction to thermodynamics. Thermodynamic properties, energy and mass conservation, entropy and the second law. Second-law analysis of thermodynamic systems, gas cycles, vapor cycles.	
ME 3720 - Intro-Fluid & Thermal Engr	3 credit hours
Theory and application, but no exhaustive treatment of fluid mechanics, thermodynamics, and heat transfer in analysis and design of fluid and thermal energy systems.	
MGT 3000 – Financial and Managerial Accounting	3 credit hours
A foundation course in measuring and reporting the financial performance and status of the firm as well as basic concepts in cost and managerial accounting.	
MGT 3150 – Principles of Management	3 credit hours
Course explores functions of management; planning, organizing, staffing, leading, and controlling. Lectures, case studies, and business exercises are used to reinforce principles that are taught.	
MGT 3660 - International Business	3 credit hours
Examines the position of the U.S. in world markets, various types of international business transactions, and the relationship of business to global economic, political-legal and cultural forces.	