B.S. COMPUTER ENGINEERING & B.A. GERMAN
Plan of Study

School of Engineering | UNIVERSITY OF St.Thomas

* The plan of study illustrates an example of how all courses may be taken in 5 years without bringing in high school credits.

Year 1	**Fall**		**Spring**
	FYEX 100 & LLC or **2 TBLCs**		
	ENGR 100 (FYE) Intro to Engineering Design		
	ENGR 175 Intro Electrical/Compt Engineering		**PHYS 211** Classical Physics I
	MATH 113 Calculus I		**MATH 114** Calculus II
	GERM 111 Elementary German I		**CISC 130** Intro Programming/Problem Solving in Sciences
	CORE requirement		**GERM 112** Elementary German II
	January-term		**Summer**
	CORE requirement		**CORE** requirement
Year 2	**Fall**		**Spring**
	ENGR 230 Digital Design (Lab)		**ENGR 240** Circuit Analysis (Lab)
	CISC 230 Object-Oriented Design/Programming		**ENGR 331** Designing with Microprocessors (Lab)
	PHYS 212 Classical Physics II		**MATH 210** Intro to Differential Equations & Systems
	GERM 211 Intermediate German I (GP)		**GERM 212** Intermediate German II (IH)
	January-term		**Summer**
	CORE requirement		
Year 3	**Fall**		**Spring**
	ENGR 345 Electronics I (Lab)		**ENGR 432** Current Trends Computing Systems (Lab)
	ENGR 330 Microprocessor Architectures		**CISC 231** Data Structures: Object-Oriented Design (Lab)
	MATH 128 Introduction to Discrete Mathematics		**GERM (1) 3XX or 4XX**
	GERM 300 Introduction to German Studies (IH)		**CORE** requirement
			GERM 330 IC Comp. Study/Work Abroad (2 cr.)
	January-term		**Summer**
	CORE requirement		**ENGR 305.03** LOCAL Internship (0 cr.)
Year 4	**Fall – In Germany**		**Spring – In Germany**
	GERM (2) 3XX or 4XX Summer language course		**ENGR 305.A03** Global Internship (0 cr.)
	GERM (3) 3XX or 4XX		
	GERM (4) 3XX or 4XX		
	ENGR/CISC XXX Elective 1		
	(**CORE** requirement, **GERM** or **ENGR** elective)		
Year 5	**Fall**		**Spring**
	ENGR 431 Design of Embedded Systems (Lab)		**ENGR/CISC XXX** Elective 2
	ENGR 480 Engineering Design Clinic I		**ENGR 481** Engineering Design Clinic II
	MATH/SCI XXX Elective 1		**MATH/SCI XXX** Elective 2
	GERM (5) 3XX or 4XX		**GERM (6) 3XX or 4XX**
	GERM 475 Experiential Learning (2 credits)		
	January-term		**Summer**
	CORE requirement		

* Declare interest in the International Engineering Program no later than your 4th semester.
* Study Abroad semester: equivalent of 12 credit hours needed (on one transcript/in one US semester)

Engineering Courses: 40 Engineering Credits
ENGR 100 – Introduction to Engineering (2 credits)

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ENGR 175 – Introduction to Electrical & Computer Engineering (2 credits)
ENGR 230 – Digital Design (4 credits)
ENGR 240 – Circuit Analysis (4 credits)
ENGR 330 – Microprocessor Architectures (4 credits)
ENGR 331 – Designing with Microprocessors (4 credits)
ENGR 345 – Electronics I (4 credits)
ENGR 431 – Design of Embedded Systems (4 credits)
ENGR 432 – Current Trends in Computing Systems (4 credits)
ENGR 480 – Engineering Design Clinic I (4 credits)
ENGR 481 – Engineering Design Clinic II (4 credits)

Allied & Elective Requirements: 56 Allied & Elective Requirement Credits
MATH 113 – Calculus I (4 credits), MATH 114 – Calculus II (4 credits)
MATH 128 – Introduction to Discrete Mathematics (4 credits)
MATH 210 – Introduction to Differential Equations and Systems (4 credits)
PHYS 211 – Classical Physics I (4 credits)
PHYS 212 – Classical Physics II (4 credits)
CISC 130 – Introduction to Programming and Problem Solving Science (4 credits)
CISC 230 – Object-Oriented Design & Programming (4 credits)
CISC 231 – Data Structures using Object-Oriented Design (4 credits)
ENGR/CISC XXX – Elective (8 credits)
MATH/SCI XXX – Elective (8 credits)
GERM 478 Experiential Learning (2 credits)
GERM 330 (488): Intercultural Competence: Prep Study/Work abroad (2 credits)

German Requirements: 44 German Credits
GERM 111 – Elem. Germ I (4 credits), GERM 112 – Elem. Germ II (4 credits), GERM 211 – Intermediate Germ I (4 credits), GERM 212 – Intermediate German II (4 credits), GERM 300 – Introduction to German Studies (4 credits),
GERM 3XX or 4XX (24 credits)

International Engineering Requirement (IEP)
ENGR 305.03 (3-months local internship) & ENGR 305.A03 (6-months international internship) (0 credits)
Study Abroad 1 semester
One GERMAN for the Professions course and one Technical GERMAN course
GERM 475 Experiential Learning (2 credits)
GERM 330: Intercultural Competence: Prep Study/Work abroad (2 credits)

Core Curriculum Requirements: 45 Core Curriculum Credits (may be satisfied w/ classes listed above).
For info on DISJ, GP, IH, WAC, SW see class-finder, degree evaluation, and talk to the IEP director.
Global Perspectives (GP): GERM 211 and above, study abroad
Integrations in the Humanities (IH) (8 credits): e.g., through GERM 212, 300, 301, 312, 330, 341, 342, 440, or LNGS 370
FYEX Foundation for College Success (1 credit); FYE CommGood/Learning Comm: GERM 111, 211, 300
Signature Work: through ENGR Senior Design Clinic
Literature and Writing (4 credits)
Language & Culture (0-8 credits): GERM 111, GERM 112, GERM 211
Philosophy and Theology (12 credits)
Social Analysis (4 credits)
Fine Arts (4 credits)
Historical Studies (4 credits)