INTERNATIONAL COMPUTER SCIENCE

Plan of Study

Below is a sample plan of study that illustrates one way to achieve the program requirements. Any given student's plan of study may differ based on a variety of factors (e.g., advanced credit, placement exams, adding a minor). Enrolled students will work with their academic advisor; utilize the degree audit/planner to create a specific plan of study.

Course	Title	Hours
Freshman		
Fall		
CSSE 120	Introduction to Software Development	4
MA 111	Calculus I	5
PH 111	Physics I	4
PH 111L	Physics I Lab	0
HUM H190	First-Year Writing Seminar	4
RHIT 100	Foundations for Rose-Hulman Success	1
	Hours	**18**
Winter		
CSSE 220	Object-Oriented Software Development	4
MA 112	Calculus II	5
PH 112	Physics II	4
PH 112L	Physics II Lab	0
HSSA Elective		4
	Hours	**17**
Spring		
CSSE 132	Introduction to Systems Programming	4
MA 113	Calculus III	5
HSSA Elective		4
CHEM 111	General Chemistry I	3
CHEM 111L	General Chemistry I Lab	1
	Hours	**17**
Sophomore		
Fall		
CSSE 280	Introduction to Web Programming	4
GER L111	German Language & Culture I	4
MA 221	Matrix Algebra & Differential Equations I	4
CSSE 230	Data Structures and Algorithm Analysis	4
	Hours	**16**
Winter		
CSSE 304	Programming Language Concepts	4
ENGL H290	Technical & Professional Communication	4
GER L112	German Language & Culture II	4
MA 276	Introduction to Proofs	4
	Hours	**16**
Spring		
MA 374	Combinatorics	4
GER L113	German Language & Culture III	4
MA 381	Introduction to Probability with Applications to Statistics	4
CSSE 333	Intro to Database Systems	4
	Hours	**16**
Junior		
Fall		
CSSE 225	Programming 3	4
CSSE 371	Software Requirements Engineering	4
CSSE 400	CSSE Seminar	4
CSSE Elective Special Subject A (Module 1)		4
HSSA Elective Technical German		4
ECE 233	Introduction to Digital Systems	4
	Hours	**24**
Winter		
CSSE 212	MSPP – Multicore Systems Programming and Performance	4
CSSE 332	Operating Systems	4
CSSE 374	Software Design	4
CSSE 432	Computer Networks	4
CSSE Elective Special Subject A (Module 2)		4
Free Elective		4
	Hours	**24**
Senior		
Fall		
CSSE 494	Senior Thesis I	4
MA 371 or MA 373	Linear Algebra I or Applied Linear Algebra for Engineers	4
Science Elective		4
CSSE 232	Computer Architecture I	4
	Hours	**16**
Winter		
CSSE 495	Senior Thesis II	4
CSSE/MA 473	Design and Analysis of Algorithms	4
HSSA Elective		4
Free Elective		4
	Hours	**16**
Spring		
CSSE 496	Senior Thesis III	4
CSSE/MA 474	Theory of Computation	4
Free Elective		4
	Hours	**12**
	Total Hours	**192**

Notes:

The courses listed in the Junior Year plan of study above represents courses taken at Hochschule Ulm. Students that successfully complete the identified Hochschule Ulm courses will receive transfer credit for Rose-Hulman equivalent courses (identified in parenthesis).