

One: Courses to be studied at PSUT and their equivalent courses at IU:

PSUT Course	Equivalent IU Course	IU Credits
[31151] National Education [31152] Arabic Islamic Civilization [31262] Introduction to Educational Sciences [31351] Contemporary Issues in the Arab World	Each of these courses is equivalent to an IU S&H course (towards the fulfillment of IU's common ground requirements)	3
[31211] Arabic Literature [31361] Introduction to Philosophy	Each of these courses is equivalent to an IU A&H course (towards the fulfillment of IU's common ground requirements)	3
[20141 + 20148] Physics 1	[P221] Physics 1	5
[20142 + 20149] Physics 2	[P222] Physics 2	5
[20132] Calculus 1	[M211] Calculus 1	4
[20133] Calculus 2	[M212] Calculus 2	4
[20234] Linear Algebra	[M303] Linear Algebra for Undergraduates	3
[20333] Numerical Analysis	[M371] Elementary Computational Methods	3
[20134] Discrete Mathematics 1	[M353] Discrete Mathematics	3
[20135] Discrete Mathematics 2	[C241] Discrete Structures for Computer Science	3
[11206] Object Oriented Programming	[C212] Introduction to Software Systems	3
[11212] Data Structures and Introduction to Algorithms	[C343] Data Structures	3
[11103] Structured Programming	[C291] System Programming with C and Unix	1.5
[22342] Computer Organization and Assembly Language	[C335] Computer Structures	3
[11102] Introduction to Computer Science	[C200] Introduction to Computers and Programming	3
[22241] Digital Logic Design	[B441] Digital Design	3
[11316] Theory of Computation	[B401] Fundamentals of Computing Theory	3

Two: Courses to be studied at IU and their equivalent courses at PSUT:

IU Course	Equivalent PSUT Course	PSUT Credits
[B403] Introduction to Algorithm Design and Analysis	[11313] Algorithm Design and Analysis	3
[P423] Compilers	[11417] Compiler Design and Programming Languages	3
[C311] Programming Languages	None	-
[B461] Advanced Database Concepts	[11323] Database Systems	3
[B351] Introduction to Artificial Intelligence	[11428] Artificial Intelligence	3
[P434] Distributed Systems	None	-
[P436] Introduction to Operating Systems	[11335] Operating Systems [11355] Operating Systems Lab	4
[P438] Introduction to Computer Networks	[11435] Data Communications and Computer Networks	3
[B443] Computer Architecture	[22541] Computer Architecture	3
[B465] Software Engineering for Information Systems 1	[11425] Software Engineering	3
[B481] Interactive Graphics	[12273] Computer Graphics	3

Third: A proposed model plan for the whole four years of study:

<p>Year 1, First Semester (Completed at PSUT)</p> <ul style="list-style-type: none"> • [11102] Introduction to Computer Science (3 credits) • [20134] Discrete Mathematics 1 (3 credits) • [20141] Physics 1 (3 credits) • [20132] Calculus 1 (3 credits) • S&H course (3 credits)* 	<p>Year 1, Second Semester (Completed at PSUT)</p> <ul style="list-style-type: none"> • [11103] Structured Programming (3 credits) • [11151] Structured Programming Lab (1 credit) • [20135] Discrete Mathematics 2 (3 credits) • [22241] Digital Logic Design (3 credits) • [20133] Calculus 2 (3 credit hours) • S&H course (3 credit hours) *
<p>Year 2, First Semester (Completed at PSUT)</p> <ul style="list-style-type: none"> • [11206] Object Oriented Programming (3 credits) • [11253] Object Oriented Programming Lab (1 credit hour) • [20142] Physics 2 (3 credit hours) • [22342] Computer Organization and Assembly Language (3 credit hours) • [20234] Linear Algebra (3 credit hours) • [31121] English Language (3 credit hours) 	<p>Year 2, Second Semester (Completed at PSUT)</p> <ul style="list-style-type: none"> • [11212] Data Structures and Introduction to Algorithms (3 credit hours) • [11316] Theory of Computation (3 credit hours) • [20233] Statistical Methods (3 credit hours) • [20333] Numerical Analysis (3 credit hours) • [31263] Technical Writing and Communication Skills (3 credits)
<p>Year 3, First Semester (Completed at IU)</p> <ul style="list-style-type: none"> • CS Elective (3-4 credits) • Natural Science Course (3 credits) • [B461] Database Concepts (3 credits) • English Composition (3 credits) 	<p>Year 3, Second Semester (IU)</p> <ul style="list-style-type: none"> • [B403] Introduction to Algorithm Design and Analysis (3 credits) • [C311] Programming Languages (4 credits) • CS Elective (3-4 credits) • A&H Course (3 credits) • Natural Science Course (3 credits)
<p>Year 4, First Semester (Completed at IU)</p> <ul style="list-style-type: none"> • [P423] Compilers (4 credits) • CS Elective (3-4 credits)** • CS Elective (3-4 credits)** • IU Course (3 credits) • Intensive Writing (3-4 credits) 	<p>Year 4, Second Semester (Completed at IU)</p> <ul style="list-style-type: none"> • IU Course (3 credits) • IU Course (3 credits) • IU Course (3 credits) • IU Course (3 credits) • A&H Course (3 credits)

***S&H (Science and Humanities) courses include:**

- [31151] National Education
- [31152] Arabic Islamic Civilization
- [31262] Introduction to Educational Sciences
- [31351] Contemporary Issues in the Arab World

****CS Electives include:**

- [B351] Introduction to Artificial Intelligence (3 credits)
- [P434] Distributed Systems (4 credits)
- [P436] Introduction to Operating Systems (4 credits)
- [P438] Introduction to Computer Networks (4 credits)
- [B443] Computer Architecture (3 credits)
- [P465] Software Engineering for Information Systems 1 (3 credits)
- [B481] Interactive Graphics (3 credits)