College of Eastern Idaho

AA/AS Computer Science Pathway

College of Eastern Idaho

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Name:		ID:	

- · A total of 60 credits are required for an AA or AS degree. For the graduation requirements, see below for a listing of courses offered that satisfy each Ways of Knowing area. Please see your faculty advisor for any questions relating to your progress and goals.
- · For an Associates of Arts (AA) at least 2 additional courses must be from Humanistic and Artistic and/or Social and Behavioral Ways of Knowing
- · For an Associates of Science (AS) at least 2 additional courses must be from Mathematical and/or Scientific Ways of Knowing

Written Communication		
ENGL 101 ♦ Writing and Rhetoric I	Required	3
ENGL 102	Required	3

	Oral Communication		
COMM 101	♦ Fundamentals of Oral Communication	Required	3

Mathematical Ways of Knowing				
		Choose 1 Course		
	MATH 123	♦ Math in Modern Society *		3
	MATH 143	♦ College Algebra *	Recommended	3
	MATH 147	♦ College Algebra & Trigonometry *		5
	MATH 153	♦ Statistical Reasoning *	Optional	3
	MATH 170	♦ Calculus I *	Required	4
	BSN 216	Business Statistics (GEM Pending) *	Optional	3

Humanistic and Artistic Ways of Knowing			
Choose 2 from different disciplines			
ART 101	♦ Art History I	3	
ART 102	♦ Art History II	3	
CUL 207	♦ Introduction to American Indian Literature	3	
ENGL 175	♦ Literature and Ideas	3	
ENGL 215	♦ Survey of World Mythology *	3	
HUM 101	♦ Introduction to Humanities I	3	
HUM 102	♦ Introduction to Humanities II	3	
MUSI 108	♦ Survey of Jazz and Pop Music	3	
PHIL 101	♦ Introduction to Philosophy	3	
PHIL 103	♦ Introduction to Ethics	3	
SPAN 101	Elementary Spanish I (GEM Pending)	4	
		1	

	Choose 2 from different disciplines	
ANTH 101	♦ Physical Anthropology	3
ANTH 102	♦ Cultural Anthropology	3
CRJ 103	♦ Introduction to Law and Justice	3
ECON 201	♦ Principles of Macroeconomics	3
ECON 202	♦ Principles of Microeconomics	3
HIST 101	♦ World History I	3
HIST 102	♦ World History II	3
HIST 111	♦ U.S. History I	3
HIST 112	♦ U.S. History II	3
POLS 101	♦ American National Government	3
POLS 102	♦ Introduction to Political Science	3
PSYC 101	♦ Introduction to Psychology	3
SOC 101	♦ Introduction to Sociology	3
SOC 102	♦ Social Problems	3

Scientific Ways of Knowing				
Choose 2 from different disciplines (at least 1 must have a lab)				
	BIOL 100	♦ Concepts of Biology		4
	BIOL 120	♦ Environmental Science		4
	BIOL 201/L	♦ Biology 1 & Lab	Optional	4
	BIOL 227/L	♦ Human Anatomy & Physiology & Lab I		4
	BIOL 228/L	♦ Human Anatomy & Physiology & Lab II *		4
	BIOL 250/L	♦ General Microbiology & Lab		4
	CHEM 100	♦ Concepts of Chemistry		4
	CHEM 101/L	♦ Introduction to Chemistry & Lab		4
	CHEM 102/L	♦ Essentials of Organic & Biochemistry & L	₋ab *	4
	CHEM 111	♦ General Chemistry I with Lab * Rec	commended	5
	GEOL 101/L	♦ Physical Geology & Lab	Optional	4
	NUTR 239	♦ Human Nutrition		3
	PHYS 100/L	♦ Survey of Physics & Lab		4
	PHYS 101/L	♦ Introduction to Physics & Lab		4
	PHYS 111/L	♦ General Physics I & Lab *	Optional	4
	PHYS 112/L	♦ General Physics II & Lab *	Optional	4
GEM Stamped Course				

Total Conoral Edu	aatian Cradita	126
Any GEM	♦	
Any GEM	\Diamond	

Total General Education Credits	/36
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Degree GEM Courses			
A minimum total of 6 GEM credits, Specific to AA or AS (see notes above):			
Any GEM	\Diamond		
Any GEM	\Diamond		

Total Degree GEM Credits	/6
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See other side for list of Elective courses and requirements.

MATH 143 & 144 or 147 prerequisite can be bypassed should the student place into MATH 170 Calculus I via the ACT, ALEKS, or SAT tests.

^{♦ -} Indicates GEM Stamped course. Any GEM stamped course is transferrable to any public institution in the state of Idaho.

^{* -} Indicates Prerequisite or placement applies. See current CEI Catalog or Advisor for more information.



Electives

A total of approximately 18 credits are required for electives, (60 overall credits) Credits may also come from other objective areas.

		may also come from other objective areas.		
	ACC 201	Introduction to Financial Accounting		3
	ACC 202	Introduction to Managerial Accounting *		3
	ART 105	Design I		3
	ART 109	Drawing I		3
	ART 231	Introduction to Graphic Design	Optional	3
	BIOL 202/L	Biology 2 & Lab *	Optional	4
	BIOL 209/L	General Ecology & Lab	Optional	4
	BSN 101	Introduction to Business	0 " 1	3
	BSN 201	Business Communication *	Optional	3
	BSN 215	Introduction to Information Science	Optional	3
	BSN 217 BSN 250	Advanced Business Statistics *		3
	BSN 255	Principles of Marketing		3
		Leadership Development Skills		3
	BSN 261	Legal Environments of Organizations	o	
	CHEM 112	General Chemistry with Organic Lab *	Optional	5
	COMM 233	Interpersonal Communication		3
	CPSC 181	Computer Science & Programming	Required	3
	EAR 105	Early Childhood Environments		3
	EDU 201	Foundations of Education		3
	EDU 204	Families, Communities, Culture		3
	EGR 105	Engineering Graphics *		2
	EGR 120	Introduction to Engineering *		2
	ENGL 203	Effective Technical Communication * F	Recommended	3
	ENGL 206	Introduction to Creative Writing *		3
	ENGL 235	Introduction to Shakespeare *		2
	GS 101	Academic & Career Exploration		1
	GS 110	Biology Career Exploration		1
	HCT 101	Medical Terminology		2
	HIST 201	Women in U.S. History		3
	HIST 291	Historians Craft		3
	MATH 144	Trigonometry *	Recommended	2
	MATH 175	Calculus II *	Required	4
	MATH 256	Arithmetic for Elementary Teachers *		3
	MATH 257	Geometry & Probability for Elementary Tea	chers *	3
	PHIL 201	Introduction to Logic		3
	POLS 221	Introduction to International Relations		3
	PSYC 120	Careers in Psychology *		1
	PSYC 211	Psychology of Death and Dying *		3
	PSYC 225	Child Development *		3
	SOC 248	Critical Analysis of Social Diversity		3
	SPAN 102	Elementary Spanish II *		4
	SWK 271	Introduction to Social Work		3
	SWK 272	Human Behavior and the Social Environme	nt l	3
	ZOOL 280	Pathophysiology *		3
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Other Courses

Course	Grade

Graduation Requirements

To graduate from CEI with your Associates Degree you must have:

- Cumulative GPA of 2.0
- Minimum grade of C- (70%) in all required courses
- At least 25% (15 credits) of your courses must come from CEI

Total General Education Credits (from above)	
Total Degree GEM Credits (from above)	
Total Elective Credits	

Total Associates Degree Credits	/60	ı
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• Comparable majors offered at:

Boise State University, BYU-Idaho, Idaho State University, Lewis-Clark State College, Montana Tech, Northwest Nazarene University, University of Idaho, University of Montana, Utah State University, Washington State University, Weber State University

Comparable majors include, but not limited to:

Algorithm Design, Cloud Computing, Computer Engineering, Cyber Security, Data Analytics, Data Management, Data Science, Information Technology, Network Operations & Security, Programming, Software Development, Software Engineering

Additional courses that may not currently be offered at CEI:

- CPSC 182 Computer Science and Programming II
- PHYS 211/L Engineering Physics I & Lab (Science GEM)
- PHYS 212/L Engineering Physics II & Lab (Science GEM)

This list of courses is subject to change. Not all courses are provided every semester. Please see a current CEI Catalog or your Self-Service for most up to date list of courses.

Sample Schedule

S	emester 1		Credits	Notes College of Eastern Idaho
*	ENGL 101	Writing & Rhetoric I	3	
*	COMM 101	Fundamentals of Oral Communication	3	
	MATH 143	College Algebra	3	Recommended
*	GEM 5		3	Any H&A WoK
*	Any GEM		3	Per AA or AS requirement
	Composion tot	_l	4.5	

Semester total 15

ı	Semester 2		Credits	Notes
,	* ENGL 102	Writing & Rhetoric II	3	Prereq: ENGL 101
1	* MATH 144	Trigonometry	2	Recommended
,	* GEM 4		4	Any Scientific WoK of different prefix
,	* GEM 6		3	Any S&B WoK
	CPSC 181	Computer Science and Programing I	3	Pre/Coreq: MATH 143

Semester total 15

Summer Semester (Optional)			Credits Notes		

Semester total

Momentum Year

Transition Year

Semester 3		Credits Notes		
	MATH 170	Calculus I	4	
*	GEM 6		3	S&B WoK of different prefix
	GEM 4		4-5	CHEM 111 recommended
*	Any GEM		3	Per AA or AS requirement
	Elective		(1)	Depending on course selection

Semester total 14-15

9	Semester 4		Credits	Notes
	MATH 175	Calculus II	4	
*	GEM 5		3	H&A WoK of different prefix
	ENGL 203	Effective Technical Communication	3	
k	Any GEM		3	
	Elective		2-3	Depending on course selection

Semester total **15-16**

S	ummer Ser	mester (Optional)	Credits	Notes

Semester total

For specific selection and sequencing of courses, students are strongly encouraged to meet with an advisor

^{*} Indicates courses that may be offered as a Summer 8 week option