

ABET CAC Student Outcomes for Computer Science program

Student Outcomes
(a) Apply knowledge of computing and mathematics appropriate to the discipline. a.1 Computing appropriate to the discipline a.2 Mathematics appropriate to the discipline
(b) Analyze a problem, and specify the computing requirements appropriate to meet desired need.
(c) Apply knowledge of programming concepts, algorithmic principles, and data abstraction to design, implement, and evaluate the software necessary to solve a specified problem.
(d) Function effectively on teams to accomplish a common goal.
(e) Understand professional, ethical, legal, security, and social issues and responsibilities.
(f) Communicate effectively with a range of audiences. f.1 Written Communication f.2 Oral Communication
(g) Analyze the local and global impact of computing on individuals, organizations, and society.
(h) Recognize the need for and demonstrate an ability to engage in continuing professional development.
(i) Use current techniques, skills, and software development tools necessary for programming practice.
(j) Model and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.
(k) Apply software engineering principles and practices in the construction of complex software systems.

Student Outcomes to be Assessed in Required Major CS Courses

Required Computer Science Course	ABET a	ABET b	ABET c	ABET d	ABET e	ABET f	ABET g	ABET h	ABET i	ABET j	ABET k
Comp 122/L	a.2	b						h			
Comp 182/L	a.1		c		e				i		k
Comp 222	a.1	b							i	j	
Comp 256/L	a.2					f.1					
Comp 282			c				g		i		k
Comp 310	a.2	b	c								
Comp 322/L		b	c						i	j	
Comp 333	a.2		c			f.1			i		
Comp 380/L		b		d		f.2	g				k
Comp 490/L	a.1		c		e	f.1	g	h			
Comp 491L		b		d		f.2				j	k
Comp 496ALG									i	j	

Calendar of Assessment Data Collection by Student Outcome and Course

Required Computer Science Course	Fall 2014	Spring 2015	Fall 2015	Spring 2016	Fall 2016	Spring 2017	Fall 2017	Spring 2018
Comp 122	a.2, b		h		a.2, b		h	
Comp 182/L	a.1, c, e		i, k		a.1, c, e		i, k	
Comp 222	a.1, b		i, j		a.1, b		i, j	
Comp 256/L	a.2		f.1		a.2		f.1	
Comp 282	c		g, i, k		c		g, i, k	
Comp 310		a.2, b, c				a.2, b, c		
Comp 322/L		b, c		i, j		b, c		i, j
Comp 333		a.2, c		f.1, i		a.2, c		f.1, i
Comp 380/L		b, d		f.2, g, k		b, d		f.2, g, k
Comp 490/L	a.1, c, e		f.1, g, h		a.1, c, e		f.1, g, h	
Comp 491L		b, d		f.2, j, k		b, d		f.2, j, k
Comp 496ALG			i, j		a.2, b		i, j	

Average Scores of Student Outcomes Assessed in Required Major Courses in the 2014-2015 and 2015-2016 academic years (range of scores: 0 to 10; shaded scores fell below score of 6.0)

Required Computer Science Course	ABET a	ABET b	ABET c	ABET d	ABET e	ABET f	ABET g	ABET h	ABET i	ABET j	ABET k
Comp 122/L	4.7	7.5						4.4			
Comp 182/L	7.4		6.5		7.7				7.5		5.7
Comp 222	6.5	7.4							7.6	6.9	
Comp 256/L	6.0					4.0					
Comp 282			5.3				7.1		5.3		6.2
Comp 310	6.2	3.1	7.0								
Comp 322/L		7.6	8.2						8.0	8.0	
Comp 333	7.2		6.6			8.5			7.2		
Comp 380/L		7.5		7.0		8.4	6.1				8.0
Comp 490/L	8.8		9.3		8.9	9.1	9.0	8.9			
Comp 491L		9.4		6.9		8.8				9.3	9.3
Comp 496ALG									7.4	7.8	

ABET CAC Student Outcomes for Computer Information Technology program

(a) Apply knowledge of computing and mathematics appropriate to the discipline (a.1) Computing appropriate to the discipline (a.2) Mathematics appropriate to the discipline
(b) Analyze a problem, and identify and define the computing requirements appropriate to its solution
(c) Design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs
(d) Function effectively on teams to accomplish a common goal
(e) Understand professional, ethical, legal, security and social issues and responsibilities
(f) Communicate effectively with a range of audiences (f.1) Written communication (f.2) Oral communication
(g) Analyze the local and global impact of computing on individuals, organizations, and society
(h) Recognize the need for and an ability to engage in continuing professional development
(i) Use current techniques, skills, and tools necessary for computing practice
(j) Use and apply current technical concepts and practices in the core information technologies of human computer interaction, information management, programming, networking, and web systems and technologies.
(k) An ability to identify and analyze user needs and take them into account in the selection, creation, evaluation and administration of computer-based systems.
(l) An ability to effectively integrate IT-based solutions into the user environment.
(m) An understanding of best practices and standards and their application.
(n) An ability to assist in the creation of an effective project plan.

Student Outcomes to be Assessed in Required CIT Major Courses (CIT and COMP courses)

Required Course	a	b	c	d	e	f	g	h	i	j	k	l	m	n
CIT 101/L						f.2	g	h				l		
CIT 160/L	a.2	b	c						i	j	k			
CIT 210/L	a.1	b	c						i				m	
CIT 270/L	a.2	b	c						i	j				
CIT 360	a.1			d		f.1		h			k	l		
CIT 480/L				d	e						k		m	n
CIT 481/L				d	e						k		m	n
COMP 110/L	a.1		c						i	j				
COMP 122/L	a.2	b						h						
COMP 182/L	a.1		c			f.1			i		k			
COMP 424	a.2				e		g	h	i					
COMP 484/L	a.1	b		d					i	j				
COMP 485		b	c			f.2				j	k			

Semester-based Plan for Assessment of Students Outcomes in Requires CIT Courses (CIT and COMP courses)

Required Course	Fall 2016	Spring 2017	Fall 2017	Spring 2018	Fall 2018	Spring 2019	Fall 2019	Spring 2020
CIT 101/L	f.2, g		h, l		f.2, g		h, l	
CIT 160/L	a.2, b, c		i, j, k		a.2, b, c		i, j, k	
CIT 210/L	a.1, b, c		i, m		a.1, b, c		i, m	
CIT 270/L	a.2, b, c		i, j		a.2, b, c		i, j	
CIT 360		a.1, d, f.1		h, k, l		a.1, d, f.1		h, k, l
CIT 480/L	d, e		k, m, n		d, e		k, m, n	
CIT 481/L		d, e		k, m, n		d, e		k, m, n
COMP 110/L	a.1, c		i, j		a.1, c		i, j	
COMP 122/L	a.2, b		h		a.2, b		h	
COMP 182/L	a.1, c, f.1		i, k		a.1, c, f.1		i, k	
COMP 424		a.2, e, g		h, i		a.2, e, g		h, i
COMP 484/L		a.1, b, d		i, j		a.1, b, d		i, j
COMP 485		b, c, f.2		j, k		b, c, f.2		j, k