Update

Program (HIT) - Health Information Technology AS.1600

Prepared By: T. Duquette
Program Catalog Summary:
Associate in Science:
SC Program: AS.1600

PROGRAM DESCRIPTION: The Associate of Science in Health Information Technology program prepares students for a career working with health information in a variety of healthcare settings in diverse roles. Health Information Technology professionals perform the essential functions of acquiring, analyzing, maintaining and securing health information vital to providing quality patient care. Health Information Technology graduates are employed in hospitals, clinics, physician's offices, ambulatory care facilities, long term care facilities, home health agencies, consulting firms, and any organization that uses patient data or health information, such as pharmaceutical companies, law and insurance firms, and health product vendors. Upon program accreditation, graduates will be eligible to apply for writing the national examination for certification as a Registered Health Information Technician (RHIT). The Health Information Technology program is designed to prepare students for entry into Shasta College's Health Information Management Baccalaureate Degree program.

This degree is approved through the California Community College Chancellor's Office. Upon satisfactory completion of all degree requirements and filing an application for graduation with Admissions and Records, the student's transcript will reflect completion of this degree.

STUDENT FEES:
Fees students may incur aside from the ordinary course enrollment fees:
1. Textbooks/Virtual Lab software access fee
2. Transportation cost to/from professional practice site (HIT 60)
3. Background check fee and required immunizations cost for student's professional practice experience (HIT 60)

DEGREE REQUIREMENTS:
In addition to the required 37-39 unit general education pattern for CSU or IGETC, students must complete the core courses listed below for the Associate of Science in Health Information Technology Degree. Students must also obtain a minimum grade point average of 2.0 with a grade of C or higher in all courses required for the major. A "P" (Pass) grade is not an acceptable grade for courses in this major.

CORE COURSES:
OAS 110 Medical Terminology 3
BIOL 5* Introduction to Biology 3
HIT 7 Introduction to Human Disease Process 3
HIT 10 Introduction to Health Information 4
HIT 11 Computer Basics for Health Information Tech. 1
HIT 15 Legal Aspects of Healthcare 3
HIT 20 Hospital and Health Statistics 3
HIT 25 Health Information in Alternative Setting 2
HIT 30 Basic Pharmacology 1
HIT 35 CPT Coding 3
HIT 40 ICD Coding I 4
HIT 45 ICD Coding II 4
HIT 50 Healthcare Reimbursement 2

HIT 55 Healthcare Quality Management 3
HIT 60 Professional Practice Experience 2
*May be used to fulfill General Education requirements. See a counselor.

ASSOCIATE IN SCIENCE DEGREE REQUIREMENTS:
Major   41
Additional General Education   34-36
General Electives   0
Degree Total   75-77*

Fall 2020

PRIOR PROGRAM REVIEW REFLECTION (If applicable)

Term and Year of Previous Review: Fall 2018

Discuss any changes to the program as a result of the previous program review: The faculty of HIT will work towards encouraging students to take the HIT certification exam after and enrolling in the BSHIM program.

Resources Received or Requested: N/A

CURRENT PROGRAM REVIEW

Who completed this form?: Andrew Dowgiert and Area Faculty: Alexis Riley and Kim Steve

Participation in completing this report: Area Faculty (list in the next box)

Summarize participation comments: The fall 2020 HIT Program Review was prepared by the full-time faculty.

Alignment with Mission: Describe how the program contributes to the Shasta College Mission: The HIT program aligns with Shasta College's mission statement by providing a diverse student population with open access to undergraduate educational programs and learning opportunities, thereby contributing to the social, cultural, creative, intellectual, and economic development of our communities.

Discuss some of the program successes and benefits to the students and/or community.: Benefits:

- The AS-HIT program is an enrollment pathway to the BS-HIM program. There are no 4-year public institutions in our region.
- The AS-HIT program is 100% online.
- Students within and outside the region may enroll in HIT courses without having to travel to campus, which gives working students and those with family responsibilities an opportunity to earn their degree.
- The AS-HIT program offers education in health information technology and prepares students for entry jobs in the healthcare industry and beyond in the region.
- The AS-HIT program plays a valuable role in the overall healthcare industry in the region.

Successes:

- The HIT program graduated three classes 2018, 2019, and 2020.
- Four students of class 2019 and 2020 AS-HIT program graduates continued on into the BS-HIM program.
- The program has built a strong HIT/HIM Advisory Committee, consisting of health information professionals throughout the state, representing various employers in a variety of healthcare settings, including two California Health Information Association past-presidents.
- The number of affiliation agreements the program has put in place with healthcare facilities, organizations, and businesses is growing. To date, 30 affiliation agreements have been finalized and more are in process.
- The HIT program has been accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM) in May 2020.
- HIT faculty has grown since the inception of the program to include a HIT Program Director, two full-time HIT faculty, and six part-time faculty teaching one or more courses in the program.
- HIT faculty have participated in professional development activities such as AHIMA convention, CHIA convention, AOE symposium, VLab training, @ONE pedagogy courses, and FLEX day workshops.
- Awareness of Shasta's AS-HIT and BS-HIM programs is growing in our community and throughout the state, through program marketing efforts such as California Health Information Association (CHIA) journal articles and advertisements, career fairs, information sessions, local radio station interview, program flyers, and the college program website.
- Establishment of HIT PROS Student Organization that have already held few events like "Becoming a HIM Professional, "Future of HIM".
- HIT PROS Student Organization will organize the RHIT exam preparation workshop in May of 2021.
- Graduate survey feedback has been positive.
- Employer survey feedback has been positive.

List each PLO and write a brief narrative summary analysis discussing outcomes for each of them.: 1. Apply the knowledge and skills needed to perform HIM Associate Degree entry-level competencies as defined by the American Health Information Management Association's (AHIMA) Council for Excellence in Education (CEE).

Outcome: 80% or more of program graduates (spring 2019 and 2020) met course SLOs and competencies.

2.   Apply the knowledge and skills needed to successfully pass the national Registered Health Information Technician (RHIT) exam.

Outcome: According to the data received from the American Health Information Association none of our graduates took the HIT exam in the period of 08/01/2019 – 07/31/2020

3.   Complete in the job market in the field of health information technology or enroll in an advanced degree program.

Outcome: Four of the program graduates from the 2019 & 2020 class have enrolled in Shasta College's baccalaureate degree HIM program.

4.   Demonstrate the ability to work effectively as an individual and collaboratively in a group to resolve health informationchallenges in a changing healthcare environment.

Outcome: Students completing HIT 60 Professional Practice Experience (in spring 2019 and 2020) all received satisfactory evaluations on their performance in a health information department facility.

Describe how this program supports a transfer pathway to CSU or UC.: The AS-HIT program is a pathway to the upper-division BS-HIM program.

Specify Labor Market Demand (for CTE programs): The employment outlook for health information technology is extremely positive – the U. S. Department of Labor's Bureau of Labor Statistics predicts an employment increase of 20 percent for health information professionals between 2016-2026. An aging population will require more medical services, and health information technicians will be needed to organize and manage the older generations' health information data.

The Shasta College HIT/HIM program is aligned with the American Health Information Management Association (AHIMA) HIM Reimagined leadership initiative to ensure that a clear pathway exists between associate and baccalaureate HIM programs to encourage existing health information professionals and new entrants to the profession to earn a baccalaureate degree and a RHIA credential, which is the standard for the HIM generalist practice.

HIT program graduates will help fill labor market demands in the Shasta College region.

PROGRAM DATA ANALYSIS

Program Effectiveness: Graduate Survey Responses

100% of spring 2019 graduates who participated in the graduate survey:

?   Answered that the overall quality of training they received in the Shasta College HIT Program was Excellent. ?   Agreed that the HIT program prepared them with the knowledge and skills to perform as health information professionals.

?   Agreed that the HIT program enabled them to think critically, solve problems, and develop appropriate action steps.

?   Agreed that the HIT program prepared them to communicate effectively within their work setting.

?   Agreed that the HIT program prepared them to conduct themselves in an ethical and professional manner.

Employer Survey Responses

The employer who responded that she has hired Shasta's HIT Program graduates:

?   Answered that the overall quality of graduates of the program was Excellent.

?   Strongly Agreed that the graduates have the knowledge necessary to function in their job.

?   Strongly Agreed that the graduates demonstrated the ability to think critically, solve problems, and develop appropriate action steps.

?   Strongly Agreed that the graduates conducted themselves in an ethical and professional manner. ?   Strongly Agreed that the graduate function effectively as a member of the work team.

Program Effectiveness (CTE): The HIT program prepares students to apply for entry jobs in the health information departments across the healthcare industry in the region. All our students are currently working in the industry or being hired after graduation.

Course Success Rates: Average for 2018-2019 & 2019-2020 academic years:

Course	Rate
HIT 7	82.47%
HIT 10	47.45%
HIT 11	53.15%
HIT 15	67.45%
HIT 20	74.80%
HIT 25	80.85%
HIT 30	66.33%
HIT 35	60.30%
HIT 40	80.10%
HIT 42	64.55%
HIT 45	93.75%
HIT 50	89.45%
HIT 55	92.30%
HIT 60	100.00%

The Institution Set Standard for course completion (grade C or better) is 70% or higher. This standard was met for all courses except HIT 10, HIT 11, HIT 30, HIT 35, HIT 42.

There might be a need to revise prerequisites and co-requisites to those courses to better prepare students before taking them. HIT 11 course is highly technical and requires basic knowledge of computer software and applications. The CIS 1 is listed as advisory to HIT 11 but might be replaced by other computer information course that better prepares students for HIT 11. There is also a suggestion that some of the students apply to the courses for the reason of receiving financial aid and they stay on the roster hence receiving a failing grade instead of dropping themselves from the course.

Course Retention Rates: Course Retention Rates
See attached document.

Average for 2018-2019 & 2019-2020 academic years:

Course	Rate
HIT 7	83.92%
HIT 10	71.35%
HIT 11	70.85%
HIT 15	84.95%
HIT 20	86.85%
HIT 25	93.75%
HIT 30	67.76%
HIT 35	78.70%
HIT 40	96.15%
HIT 42	87.75%
HIT 45	93.75%
HIT 50	94.45%
HIT 55	100%
HIT 60	100.00%

The lowest retention rates were for HIT 10, HIT 11, and HIT 30. This may be because these two courses are first-semester courses, and some students might have decided that Health Information Technology was not their career path. Retention rates for courses offered in the final semester (HIT 45, 50, 55 & 60) were all over 90%.

Course Enrollments:

	2018F	2019S	2019F	2020S
HIT 7	17	14	10	13
HIT 10	19	14	22	14
HIT 11	16		24	
HIT 15		27		22
HIT 20		20		19
HIT 25		15		20
HIT 30	23		35	
HIT 35	17		16	
HIT 40	6		13	

HIT 42	22	20
HIT 45	8	12
HIT 50	9	10
HIT 55	13	15
HIT 60	5	9

Equity: Demographics – Average for 2018-19& 2019-20(Average)

Female 85.75%
Male   13.75%

Ethnicity 2018-2019 & 2019-2020 (Average)
American Indian 2.49%
Asian 3.59%
Black or African American 1.63%
Hawaiian/Pacific Islander 0.0%
Hispanic 17.72%
White 62.25%
Non-Resident Alien 5.31%
Two or More Races 6.45%
Unknown 2.4%

Age 208-2019 & 2019-2020 (Average)

29 to 24	34.17%	19 and under 28.01%
25 to 29	9.64%	
30 to 39	8.49%	Students enrolled in the online HIT program have equal access to Shasta College services
40 to 49	8.19%	and resources as those students taking courses on-campus – tutoring, FA/funding, access to
40 to 49	19.5%	instructors, quality of courses, library, counseling, etc.
50+	6.04%	

CURRICULUM

Review of courses with prerequisites: Effective fall 2019, the course prerequisite for HIT 25 Health Information in Alternative Settings is changing from HIT 10 as a prerequisite to HIT 10 as a co-requisite or previous completion of HIT 10.

Challenges to offering key courses: Since this is a new program, course enrollment is not yet at full capacity. It will require steady advertisement from the Health Science division and Shasta College to spread the news of offering this degree in the region and among the healthcare industry.

Course changes: In fall 2019, the following course changes will be in effect to improve the HIT program:
- HIT 10 Introduction to Health Information decreasing from 4 to 3 units.
- HIT 60 Professional Practice Experience increasing from 2 units (lab) to 3 units (2 lab/1 lecture)
- HIT 11 Computer Basics for HIT will become Computer Information Systems for HIT

All HIT courses have been updated in CurricUNET. Updates included changes to course content outlines, course objectives, and textbooks.

SUMMARY

Changes or improvements needed based on the analysis above: Increase retention rate.
Increase graduation rate.
Increase RHIT exam passing rate.
Revision of PLO.

Note any resources you intend to request through the Area Planning process to improve the program.: N/A

Conclusion: The HIT program was designed as a pathway to the Health Information Management program. Graduates of the associate degree HIT program may enter the workforce or continue their higher education in the bachelor's degree program.

BELOW TO BE COMPLETED BY THE PROGRAM REVIEW COMMITTEE

Date: 05/11/2021

Recommended Action: without qualification

Summary of Findings: The PRC recommends this program continue without qualification. The program has a three-year average of 5.3 completers (2017/18 to 2019/20), with 8 in year 2019/20. The 5-year average success rate for the entire set of degree classes is 64.2%, which is below the Institution-set Standard of 70%. However, as the faculty note in their program review report, several specific classes are more challenging (It should also be noted that some courses are new). Retention rates for all classes have a five-year average of 80.2%. Enrollments vary in each class and term. The HIT 10 class Introduction to Health Information has a five-year average of 21.2 students per term whereas the BIOL-5 has 38.1 students per term, and HIT 60 has a 3-SEMESTER average of 6.7 students per term.

The HIT course PLO's have been mapped to ISLO's, SLO's to PLO's and SLO's to ISLO's. The Biology and HEOC classes which are listed in the catalog are not shown in Nuventive mapping tool.

The PRC commends the program faculty for being accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM) in May 2020. We applaud their awareness regarding enrollment for the new program and their efforts with the HIT PROS Student Organization.

The Program Review Committee recommends:

•	Review PLO assessment practices to include quantifiable as well as narrative components. Set target ranges or benchmarks for outcomes and use meaningful data. o	Reach out to the SLO Coordinators and/or the Research Office for assistance. o	Work with faculty from other areas who impact your students for shared PLO outcomes data (HEOC and BIO).

o	Verify mapping of ALL courses

•	Work with faculty, tutors, and SI leaders to find approaches to help majors in BIO and HIT classes to improve success and retention rates as needed (e.g. HIT 10 has 55.5% 5-year success average).

•	Continue to pursue ideas for enrollment management from promotion to retention.

•	Review the equity-indicator data and take a proactive stance (this also might be an area for promotion and retention).

Date summary sent to program faculty and/or counselors: 05/11/2021

Program faculty response: The dean and a faculty serve on PRC and they agreed with disposition.

Date summary sent to College Council: 09/10/2021

Date reviewed by College Council: 09/21/2021

College Council response or additional action: Acknowledged receipt

Superintendent/President response/additional action: none

PROGRAM AWARDS

Award Type	Program Type	2015-16	2016-17	2017-18	2018-19	2019-20
Associate of Science Degree	Health Information Technology			5	3	8
Grand Total				5	3	8

COURSE STATISTICS

		Academic Year				
		2015-16	2016-17	2017-18	2018-19	2019-20
BIOL-5	# Sections	7	8	9	9	11
	Capacity	227	262	298	280	398
	Census Enrl	225	298	324	307	375
	Fill Rate	99.1%	113.7%	108.7%	109.6%	94.2%
	FTES	22.3	29.8	32.9	30.6	37.6
	FTEF	0.8	1.0	1.2	1.1	1.8
	FTES/FTEF	27.9	29.8	27.4	28.2	21.4
	WSCH	672.00	901.00	999.00	927.00	1,143.00
	DualEnrlSec	0	0	0	0	0
	OnlineSec	1	2	2	2	6
	ITV_Secondary	3	3	3	3	2
HEOC-110	# Sections			23	20	
	Capacity			369	349	
	Census Enrl			348	373	
	Fill Rate			94.3%	106.9%	
	FTES			34.9	36.5	
	FTEF			1.6	1.7	
	FTES/FTEF			22.1	21.3	
	WSCH			1,053.00	1,075.00	
	DualEnrlSec			8	7	
	OnlineSec			6	7	
	ITV_Secondary			7	4	
HIT-10	# Sections	1	2	2	2	2
	Capacity	35	65	65	70	70
	Census Enrl	20	51	51	33	36
	Fill Rate	57.1%	78.5%	78.5%	47.1%	51.4%
	FTES	2.6	6.9	6.8	4.4	3.6
	FTEF	0.3	0.5	0.5	0.5	0.4
	FTES/FTEF	9.7	13.0	12.7	8.2	9.0
	WSCH	82.00	214.00	210.00	136.00	111.00
	DualEnrlSec	0	0	0	0	0
	OnlineSec	1	2	2	2	2
	ITV_Secondary	0	0	0	0	0
HIT-11	# Sections	1	1	2	1	1
	Capacity	35	30	65	35	35
	Census Enrl	21	14	40	16	24
	Fill Rate	60.0%	46.7%	61.5%	45.7%	68.6%
	FTES	0.7	0.5	1.3	1.1	1.6
	FTEF	0.1	0.1	0.1	0.1	0.1
	FTES/FTEF	10.0	7.5	10.0	8.0	12.0
	WSCH	21.00	15.00	41.00	33.00	49.00
	DualEnrlSec	0	0	0	0	0
	OnlineSec	1	1	2	1	1
	ITV_Secondary	0	0	0	0	0

HIT-15	# Sections	1	1	1	1
	Capacity	30	30	35	35
	Census Enrl	17	14	27	22
	Fill Rate	56.7%	46.7%	77.1%	62.9%
	FTES	1.7	1.4	2.7	2.2
	FTEF	0.2	0.2	0.2	0.2
	FTES/FTEF	8.5	7.0	13.5	11.0
	WSCH	52.00	43.00	83.00	68.00
	DualEnrlSec	0	0	0	0
	OnlineSec	1	1	1	1
	ITV_Secondary	0	0	0	0
HIT-20	# Sections	1	1	1	1
	Capacity	30	30	35	35
	Census Enrl	15	10	22	19
	Fill Rate	50.0%	33.3%	62.9%	54.3%
	FTES	1.5	1.0	2.2	1.9
	FTEF	0.2	0.2	0.2	0.2
	FTES/FTEF	7.5	5.0	11.0	9.5
	WSCH	46.00	31.00	68.00	59.00
	DualEnrlSec	0	0	0	0
	OnlineSec	1	1	1	1
	ITV_Secondary	0	0	0	0
HIT-25	# Sections	1	1	1	1
	Capacity	35	35	35	35
	Census Enrl	11	17	15	16
	Fill Rate	31.4%	48.6%	42.9%	45.7%
	FTES	0.7	1.1	1.0	1.1
	FTEF	0.1	0.1	0.1	0.1
	FTES/FTEF	5.5	8.5	7.5	8.0
	WSCH	23.00	35.00	31.00	33.00
	DualEnrlSec	0	0	0	0
	OnlineSec	1	1	1	1
	ITV_Secondary	0	0	0	0
HIT-30	# Sections	2	2	1	3
	Capacity	40	40	35	75
	Census Enrl	25	41	23	47
	Fill Rate	62.5%	102.5%	65.7%	62.7%
	FTES	0.9	1.4	0.8	1.6
	FTEF	0.1	0.1	0.1	0.2
	FTES/FTEF	6.5	10.1	11.5	7.8
	WSCH	26.00	43.00	24.00	48.00
	DualEnrlSec	0	0	0	0
	OnlineSec	2	2	1	3
	ITV_Secondary	0	0	0	0
HIT-35	# Sections	1	1	1	1
	Capacity	35	35	35	35
	Census Enrl	14	16	17	16

Course	Metric				
	Fill Rate	40.0%	45.7%	48.6%	45.7%
	FTES	1.3	1.6	1.7	1.6
	FTEF	0.2	0.2	0.2	0.2
	FTES/FTEF	6.5	8.0	8.5	8.0
	WSCH	40.00	49.00	52.00	49.00
	DualEnrlSec	0	0	0	0
	OnlineSec	1	1	1	1
	ITV_Secondary	0	0	0	0
HIT-40	# Sections	1	1	1	1
	Capacity	35	35	35	35
	Census Enrl	14	6	6	13
	Fill Rate	40.0%	17.1%	17.1%	37.1%
	FTES	1.7	0.8	0.6	1.3
	FTEF	0.4	0.4	0.3	0.3
	FTES/FTEF	4.9	2.3	2.1	4.6
	WSCH	80.00	37.00	31.00	67.00
	DualEnrlSec	0	0	0	0
	OnlineSec	1	1	1	1
	ITV_Secondary	0	0	0	0
HIT-45	# Sections		1	1	1
	Capacity		30	35	35
	Census Enrl		8	8	12
	Fill Rate		26.7%	22.9%	34.3%
	FTES		1.1	0.5	0.8
	FTEF		0.4	0.1	0.1
	FTES/FTEF		3.1	4.0	6.0
	WSCH		49.00	16.00	25.00
	DualEnrlSec		0	0	0
	OnlineSec		1	1	1
	ITV_Secondary		0	0	0
HIT-50	# Sections		1	1	1
	Capacity		30	35	35
	Census Enrl		8	9	10
	Fill Rate		26.7%	25.7%	28.6%
	FTES		0.5	0.6	0.7
	FTEF		0.1	0.1	0.1
	FTES/FTEF		4.0	4.5	5.0
	WSCH		16.00	19.00	21.00
	DualEnrlSec		0	0	0
	OnlineSec		1	1	1
	ITV_Secondary		0	0	0
HIT-55	# Sections		1	1	1
	Capacity		30	35	35
	Census Enrl		15	13	15
	Fill Rate		50.0%	37.1%	42.9%
	FTES		1.5	1.3	1.5
	FTEF		0.2	0.2	0.2

		Col1	Col2	Col3	Col4	Col5
	FTES/FTEF			7.5	6.5	7.5
	WSCH			46.00	40.00	46.00
	DualEnrlSec			0	0	0
	OnlineSec			1	1	1
	ITV_Secondary			0	0	0
HIT-60	# Sections			1	1	1
	Capacity			35	35	35
	Census Enrl			6	5	9
	Fill Rate			17.1%	14.3%	25.7%
	FTES			0.4	0.3	0.9
	FTEF			0.3	0.3	0.4
	FTES/FTEF			1.2	1.0	2.5
	WSCH			41.00	34.00	65.00
	DualEnrlSec			0	0	0
	OnlineSec			0	1	1
	ITV_Secondary			0	0	0
HIT-7	# Sections		1	2	2	2
	Capacity		30	65	70	70
	Census Enrl		14	31	31	23
	Fill Rate		46.7%	47.7%	44.3%	32.9%
	FTES		1.4	3.1	3.1	2.3
	FTEF		0.2	0.4	0.4	0.4
	FTES/FTEF		7.0	7.8	7.8	5.8
	WSCH		43.00	95.00	95.00	71.00
	DualEnrlSec		0	0	0	0
	OnlineSec		1	2	2	2
	ITV_Secondary		0	0	0	0
Grand Total	# Sections	9	19	49	44	28
	Capacity	297	592	1,192	1,154	963
	Census Enrl	266	473	935	905	637
	Fill Rate	89.6%	79.9%	78.4%	78.4%	66.1%
	FTES	25.6	46.5	89.9	87.4	58.6
	FTEF	1.1	3.0	6.1	5.7	4.7
	FTES/FTEF	22.5	15.4	14.8	15.2	12.4
	WSCH	775.00	1,440.00	2,788.00	2,664.00	1,855.00
	DualEnrlSec	0	0	8	7	0
	OnlineSec	3	13	24	24	23
	ITV_Secondary	3	3	10	7	2