

**Report on the Overlay Project:
Alignment of Community College Class Schedules
with Program Requirements at UH Mānoa and UH West Oahu**

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Executive Summary

The report is designed to analyze the alignment of community college courses with popular 4-year degrees at UH Mānoa and UH West Oahu.

The analysis connects class schedule with specific requirements for the most popular transfer programs to help answer four basic questions:

1. Which courses should/could be offered at the CCs?
2. What is the basis for prioritizing these courses?
3. What is the gap these courses will fill?
4. Which of these courses should be offered via online?

The course requirements do not consider foundation and diversification requirements or prerequisites, but instead focus on specific class requirements connected to the degree.

The definition of popularity of programs has been determined by the number of transfer students from the CCs declaring that major. The data is from Fall 2012 and Spring 2013 and has been provided by the UHCC Institutional Research Office.

The following degrees are included in this report:

Accounting (BBA, UHM)	page 7
Applied Track (BASS) (BA, UHWO)	page 9
Art (BFA, UHM)	page 10
Biology (BA, UHM)	page 12
Biology (BS, UHM)	page 14
Business Administration, General (BA, UHWO)	page 17
Computer Science (BS, UHM)	page 18
Electrical Engineering (BS, UHM)	page 20
Elementary Education (BeD, UHWO)	page 22
Elementary Education and Early Childhood Education (BeD, UHM) and Elementary Education and Special Education (BeD, UHM)	page 24
English (BA, UHM)	page 25
General Public Administration (BA, UHWO)	page 26
Hawaiian Studies (BA, UHM)	page 27
Information and Computer Science (BA, UHM)	page 29
Kinesiology & Rehabilitation Science: Health, Exercise Science and Lifestyle Management (BS, UHM)	page 30
Mechanical Engineering (BS, UHM)	page 33
Nursing (BS, UHM)	page 35

Political Science (BA, UHM)	page 37
Psychology (BA, UHM)	page 38
Travel Industry Management: (two majors combined)	
Tourism/Transportation Management (BS, UHM)	
and Hospitality Management (BS, UHM)	page 39

The list of courses based on popularity has several key limitations:

1. There are degrees that might be popular in the end but that transfer students are unfamiliar with or do not declare for other reasons, so the list will naturally bias majors that are already represented by classes offered in the community college system.
2. There are some "majors" that do not align with specific degrees, such as more general declarations like "Humanities" or "pre-Engineering". Thus degrees like History do not show up, even though they turn out to be popular majors.
3. The list does not take into account any strategic considerations, such as workforce development, internationalization, or indigenization.

To alleviate some of the limitations of the list, details on any program offered at UHM and UHWO can be found at http://www.hawaii.edu/overlay/List_by_Programs.php. The specific program can be selected from one of the lists in the header. The summary can be added to the bottom of the results by clicking on the "Include Summary" button in the header.

Also, it is important to note that while the programs are analyzed in terms of *courses*, the community college offerings are in terms of *classes*, which means that a required course may be in the community college catalog but has not been offered, perhaps because it is new, perhaps because it is under-enrolled and is always cancelled.

Note on Section Totals

Totals include scheduled classes since Spring 2012 and includes Spring 2015 and the summers. Individual sections (CRNs) are counted, so a single class that has been divided into several smaller sections will be counted more than once. This means that some classes are going to be over-counted.

Access to the larger data set is at <http://www.hawaii.edu/overlay/>.

Recommendations

Recommendations are divided into six sections:

1. Courses that should be added based on program popularity
2. Other curriculum suggestions based on program popularity
3. Courses to consider adding throughout the curriculum
4. Courses to consider for online delivery throughout the curriculum
5. UHM and UHWO degrees for which CCs are not offering courses
6. Degrees at UHM and UHWO that lack 100- and 200- program courses in their curriculum

1. Courses that should be added based on program popularity

- add ART 175/176 and online options - these are the core courses for the UHM Art degree
- add BE 120 - one of several courses that meet a basic requirement for the Biological and Civil Engineering programs
- expand the availability of ECON 120 - colleges tend to have ECON 130 and 131, but ECON 120 also meets many degree qualifications.
- add EDEF 201, connected to Education degrees at UHWO
- add HWST 222, 224 and/or 225 - for the UHM Hawaiian Studies program, meeting the Hawaiian art requirement
- add HWST 207 - for the UHM Hawaiian Studies program, this is the "Hawaiian Perspectives in Ahupua'a" course. Similar courses may already exist in the system that could be renumbered or connected in the transfer database.
- add NREM 203 - used by many of the business and TIM degrees
- add online SOCS 225 - a requirement for many programs
- add SSCI 210 (at UHWO) to the transfer database, it should probably be the same as SOCS 225
- add SPED 201 - for elementary education at UHM
- add TIM 102 - for TIM programs, but course is also an FGB at UHM

2. Other curriculum suggestions based on program popularity

- The art and design courses might be better sorted out, especially in light of the new curriculum connected to Creative Media. At present, similar courses are offered in ART and ICS. ACM 220 and 255, which are required at UHM, are not offered in the CCs.
- The course alignments for Anthropology should be improved to address changes in the degree requirements at UHM. Their curriculum has changed from ANTH 150/200 to ANTH 151/152 and archaeology courses have been added.
- Determine whether it is feasible to offer a greater variety of science labs online. In most cases, this is more than simply adding an online section - the logistics for offering labs is more complicated because they involve access to facilities and equipment or the use of dangerous materials. Labs could also be organized differently from lectures so that an online lecture originates from a single source is paired with labs at different colleges (that would likely have to be subsidized). Labs could also be offered in a more intense residency program focused on a specific campus, somewhat like the 'Ike program has done. Some discussion of online labs can be found at WICHE's NANSLO program website (<http://www.wiche.edu/nanslo>). Possible online labs, which all meet basic science requirements, include:
 - BIOL 171L
 - BIOL 172L
 - BIOL 265L
 - BIOL 275L
 - CHEM 161L
 - CHEM 162L
 - CHEM 272L

- CHEM 273L
- PHYS 151L
- PHYS 152L
- PHYS 170L
- PHYS 272L
- Determine other ways of making upper-level science lectures and labs available to neighbor islands, perhaps involving summer residency on Oahu for courses that require physical access to labs and equipment.
- Make sections of ICS programming courses available to neighbor island colleges, perhaps in an online modality or an intensive boot camp in the summer on Oahu.
- Approach the Political Science Department at UHM to create a meaningful pathway. Other examples of programs lacking meaningful pathways are listed below.

3. Courses to consider adding throughout the curriculum

These suggestions are based on a general survey of the program requirements and the classes offered at the CCs.

- CHEM 274/274L - the highest-level 200-level Chemistry class
- EDEF 200 and 201 - for UHWO Education
- ENG 240 and ENG 260 - for UHWO
- GG 102, GG 104, GG 105, and GG 106 - used in Education at UHM
- GG 130, GG 170, GG 200, and GG 250 - used in Geology (BS, UHM)
- MET 200 - used in Atmospheric Sciences at UHM
- OEST 101 - used by Education at Mānoa
- PACS 201 and PACS 202 - core requirement for PACS (BA, UHM)
- PHIL 210, 212, and 220 - used by History and Philosophy at UHWO
- Various introductory languages are not available, including German, Greek, Korean, Latin, Russian

4. Courses to consider for online delivery throughout the curriculum

These suggestions are based on the current lack of or limits to online options and the courses' relevance to 4-year degrees. The viability of the course for an online modality is also considered, although this is often not decisive as technology and pedagogy develop. Some of these suggestions are also made in other lists. Labs, for instance, are listed above in section #2.

- ART 175/176 - core requirement for UHM Art degree
- other ART courses as possible, including studio courses, which could be hybrid
- COMG 251 - widely required and not very available online
- EE courses, including EE 160, 211, 213, and 260
- ICS programming classes such as ICS 212. More sections of ICS 241 may also be useful.
- MUS 108 - part of the Elementary Education programs at UHM
- MUS 253 - part of the Elementary Education program at UHM and UHWO
- PACS 108 - general requirement for PACS and included in other degrees
- PSY 220 and PSY 230, for Kinesiology & Rehabilitation Science

- PSY 260 - for Applied Track (BASS) (BA, UHWO)
- SOCS 225 - requirement for many degrees
- TIM 102 - required for TIM programs and also an FGB at UHM

For a complete list of courses connected to degrees, showing only online offerings, see: http://www.hawaii.edu/overlay/List_by_Classes.php?online=yes . This page will take a long time to download.

5. UHM and UHWO degrees for which CCs are not offering courses

The following programs are generally not represented in the community colleges:

- Animal Science (ANSC) courses connected to the Animal Sciences degree (BS, UHM), including ANSC 200, 201, and 244
- Architecture (ARCH) courses connected to the Architecture degree (BEnvD, UHM)
- Asian Studies (ASAN) courses connected to the Asian Studies degree (BA, UHM) - ASAN 201 and 202
- Biological Engineering (BE) courses connected to Biological and Civil Engineering degrees at UHM.
- Dental Hygiene (DH) courses connected to Dental Hygiene (BS, UHM)
- Dance (DNCE) courses connected to the Dance Theatre (BA, UHM)
- Ethnic Studies (ES) courses connected to the Ethnic Studies program (BA, UHM)
- Fashion Design and Merchandising (FDM) courses connected to Fashion Design and Merchandising program (BS, UHM)
- Food Science and Human Nutrition (FSHN) courses connected to Food Science and Human Nutrition: Human Nutrition program (BS, UHM)
- Kinesiology & Rehabilitation Science courses (KRS, PH, and PHYL) connected to the Kinesiology & Rehabilitation Science program (BS, UHM)
- Interdisciplinary Studies (BA, UHM)
- The UHM Music program does not seem to be well supported at the community colleges. MUS 125, 126, 155, 156, 157, 158, 225, 226, 232B/C, 250, 251, 265, 266, 270, 285, 286, 287, 288, 289 are not offered in the CCs, and are used in Music and in Education at UHM
- Second Language Studies (BA, UHM), although only SLS 150 and 280 are required.
- Tropical Plant and Soil Science courses (TPSS) connected to the Tropical Plant and Soil Science program

While these degrees are not included in the list of popular transfer degrees, it is nonetheless possible that transfer pathways from the community colleges would be viable.

6. Degrees at UHM and UHWO that lack 100- and 200- program courses in their curriculum

The community colleges ought to approach departments at the four-year colleges that have no significant connection to 100- and 200-level courses to encourage them to create a meaningful pathway into their programs. The following degrees have no degree-specific coursework at the 100- and 200-level:

- American Studies (BA, UHM)
- Creative Media (BA, UHWO) - the UHM program has ACM 220 and 255
- Ethnic Studies (BA, UHM), only has ES 101, which is only offered at Kapi'olani CC
- General Public Administration (BA, UHWO) - only requires SSCI 210
- History (BA, UHM) - requires only one 200-level History class
- Justice Administration (BA, UHWO) - only requires SSCI 210
- Political Science (BA, UHM) - requires only one 100- or 200-level History class
- Secondary Education: Social Studies (BeD, UHM)
- Women's Studies (BA, UHM)

Course Offerings for Accounting (BBA, UHM)

Course	HonCC	KapCC	LeeCC	WinCC	HawCC	KauCC	MauiC
ACC 201 online = 93	15 section(s) (DCO=12)	71 section(s) (DCO=16)	77 section(s) (DCO=26)	21 section(s) (DCO=9)	24 section(s) (DCO=18)	33 section(s) (DCO=12)	33 section(s)
ACC 202 online = 63	10 section(s) (DCO=7)	48 section(s) (DCO=13)	44 section(s) (DCO=22)	15 section(s) (DCO=7)	14 section(s) (DCO=14)	5 section(s)	26 section(s)
BLAW 200 online = 43	1 section(s)	38 section(s) (DCO=20)	27 section(s) (DCO=20)	none	none	9 section(s) (DCO=3)	20 section(s)
BUS 250 no online	none	21 section(s)	none	none	none	none	none
COMG 151 online = 75	90 section(s) (DCO=14)	141 section(s)	177 section(s) (DCO=11)	55 section(s)	94 section(s) (DCO=44)	43 section(s) (DCO=6)	39 section(s)
COMG 251 online = 2	22 section(s) (DCO=2)	12 section(s)	48 section(s)	20 section(s)	6 section(s)	2 section(s)	4 section(s)
ECON 130 online = 77	18 section(s) (DCO=5)	33 section(s) (DCO=7)	61 section(s) (DCO=34)	21 section(s) (DCO=8)	9 section(s) (DCO=9)	7 section(s)	35 section(s) (DCO=14)
ECON 131 online = 55	12 section(s) (DCO=2)	14 section(s) (DCO=7)	49 section(s) (DCO=18)	20 section(s) (DCO=9)	9 section(s) (DCO=9)	5 section(s)	34 section(s) (DCO=10)
ENG 209 online = 128	12 section(s)	68 section(s) (DCO=52)	50 section(s) (DCO=36)	29 section(s) (DCO=5)	none	none	90 section(s) (DCO=35)
ICS 101B online = 131	12 section(s)	91 section(s) (DCO=37)	25 section(s) (DCO=18)	29 section(s) (DCO=13)	9 section(s)	5 section(s)	107 section(s) (DCO=63)
MATH 203 online = 3	2 section(s)	none	3 section(s)	3 section(s) (DCO=3)	none	none	4 section(s)
MATH 241 online = 3	6 section(s)	32 section(s)	25 section(s)	10 section(s) (DCO=3)	2 section(s)	4 section(s)	14 section(s)
PSY 100 online = 169	39 section(s)	99 section(s) (DCO=27)	141 section(s) (DCO=29)	71 section(s) (DCO=20)	65 section(s) (DCO=32)	19 section(s)	134 section(s) (DCO=61)
SOC 100 online = 140	28 section(s) (DCO=12)	37 section(s) (DCO=12)	74 section(s) (DCO=34)	30 section(s) (DCO=17)	46 section(s) (DCO=16)	10 section(s) (DCO=5)	101 section(s) (DCO=44)

Source: http://www.hawaii.edu/overlay/List_by_Programs.php?summary=yes&program=71

Courses Not Offered in the CCs

- BUS 209 (equivalent to ENG 209, which is offered)

- NREM 203 (MATH 203, etc also count)

Scope of Availability

The specific requirements for Accounting are generally available, with the exception of BUS 250 and NREM 203, a requirement that can also be met by MATH 203 or MATH 241.

Online classes are generally widely available, although some, such as COMG 251 and MATH 203 have limited sections.

Recommendations

- Develop BUS 250, perhaps as an online course to create a clearer pathway to the School of Business. The course would also connect to Travel Industry Management.
- Expand the online availability of COMG 251

Course Offerings for Applied Track (BASS) (BA, UHWO)

Course	HonCC	KapCC	LeeCC	WinCC	HawCC	KauCC	MauiC
PSY 260 no online	none	7 section(s)	7 section(s)	3 section(s)	none	none	2 section(s)

Source: http://www.hawaii.edu/overlay/List_by_Programs.php?summary=yes&program=163

Courses Not Offered in the CCs

- SSCI 210 - likely equivalent to SOCS 225

Scope of Availability

There are minimal specific requirements for Applied Track (BASS).

There is no online version of PSY 260 or SSCI 210

Recommendations

- Approach UHWO to expand the pathway from the community colleges to this program
- Consider creating an online version of PSY 260.

Course Offerings for Art (BFA, UHM)

Course	HonCC	KapCC	LeeCC	WinCC	HawCC	KauCC	MauiC
ART 107 no online	none	27 section(s)	none	12 section(s)	none	none	none
ART 113 no online	12 section(s)	43 section(s)	22 section(s)	13 section(s)	11 section(s)	6 section(s)	7 section(s)
ART 116 no online	none	17 section(s)	2 section(s)	4 section(s)	none	none	none
ART 123 no online	3 section(s)	18 section(s)	7 section(s)	7 section(s)	4 section(s)	6 section(s)	none
ART 175 no online	none	none	20 section(s)	none	none	none	none
ART 176 no online	none	none	10 section(s)	none	none	none	none
ART 202 no online	none	8 section(s)	4 section(s)	none	9 section(s)	none	none
ART 207 no online	none	4 section(s)	none	5 section(s)	none	none	none
ART 207 no online	none	4 section(s)	none	5 section(s)	none	none	none
ART 213 no online	2 section(s)	7 section(s)	3 section(s)	1 section(s)	none	5 section(s)	none
ART 214 no online	none	10 section(s)	4 section(s)	3 section(s)	2 section(s)	none	none
ART 214 no online	none	10 section(s)	4 section(s)	3 section(s)	2 section(s)	none	none
ART 217 no online	none	none	none	none	4 section(s)	none	none
ART 223 no online	none	5 section(s)	7 section(s)	1 section(s)	none	4 section(s)	3 section(s)
ART 225 no online	none	none	none	none	none	6 section(s)	none
ART 238 online = 1	none	none	none	none	2 section(s) (DCO=1)	none	none

Source: http://www.hawaii.edu/overlay/List_by_Programs.php?summary=yes&program=2

Courses Not Offered in the CCs

- ART 130
- ART 201
- ART 215
- ART 218
- ART 230
- ART 234
- ART 237
- ART 242
- ART 254
- ART 255
- ART 265
- ART 265L
- ART 266

Overall

All of course requirements for the Art BFA are available from at least one community college, though the offerings in the specialized courses are spottier.

Most of the second-year courses in Printmaking, Graphic Design, Fiber, and Glass concentrations are not offered at the community colleges. However, the demand for these specializations may not justify a campus committing the resources to offer the courses.

There are no online classes offered for the Art BFA at the CCs. Some might be difficult to migrate, such as the studio drawing and painting classes. Others are close to impossible because of equipment requirements, like wheel throwing or chemicals.

However, there are some, such as the introductory Art History classes (ART 175 and ART 176) that could be easily moved to an online modality.

Recommendations

- Add online ART 175 and 176
- Explore the emerging connections with Creative Media (which may not align very well to the traditional fields of ART and ICS)

Course Offerings for Biology (BA, UHM)

Course	HonCC	KapCC	LeeCC	WinCC	HawCC	KauCC	MauiC
BIOL 171 no online	4 section(s)	24 section(s)	11 section(s)	9 section(s)	4 section(s)	2 section(s)	3 section(s)
BIOL 171L no online	4 section(s)	20 section(s)	11 section(s)	12 section(s)	4 section(s)	2 section(s)	3 section(s)
BIOL 172 no online	none	18 section(s)	5 section(s)	8 section(s)	2 section(s)	2 section(s)	3 section(s)
BIOL 172L no online	none	17 section(s)	5 section(s)	5 section(s)	2 section(s)	2 section(s)	3 section(s)
BIOL 265 no online	none	7 section(s)	1 section(s)	none	none	none	none
BIOL 265L no online	none	7 section(s)	1 section(s)	none	none	none	none
BIOL 275 no online	none	7 section(s)	3 section(s)	1 section(s)	none	none	none
BIOL 275L no online	none	21 section(s)	3 section(s)	1 section(s)	none	none	none
CHEM 161 online = 24	6 section(s)	56 section(s) (DCO=23)	35 section(s)	15 section(s) (DCO=1)	4 section(s)	2 section(s)	3 section(s)
CHEM 161L no online	6 section(s)	55 section(s)	35 section(s)	15 section(s)	4 section(s)	2 section(s)	3 section(s)
CHEM 162 online = 12	5 section(s)	31 section(s) (DCO=8)	22 section(s)	12 section(s) (DCO=4)	1 section(s)	3 section(s)	4 section(s)
CHEM 162L no online	5 section(s)	20 section(s)	22 section(s)	8 section(s)	1 section(s)	3 section(s)	4 section(s)
CHEM 272 no online	none	8 section(s)	5 section(s)	2 section(s)	none	none	none
CHEM 272L no online	none	6 section(s)	5 section(s)	2 section(s)	none	none	none
CHEM 273 no online	none	8 section(s)	6 section(s)	1 section(s)	none	none	none
CHEM 273L no online	none	6 section(s)	6 section(s)	1 section(s)	none	none	none
MATH 241 online = 3	6 section(s)	32 section(s)	25 section(s)	10 section(s) (DCO=3)	2 section(s)	4 section(s)	14 section(s)
MATH 242 online = 3	6 section(s)	20 section(s)	20 section(s) (DCO=3)	7 section(s)	1 section(s)	4 section(s)	10 section(s)

MATH 243 online = 3	2 section(s)	8 section(s)	12 section(s) (DCO=3)	6 section(s)	none	2 section(s)	7 section(s)
PHYS 151 no online	6 section(s)	8 section(s)	3 section(s)	3 section(s)	none	2 section(s)	3 section(s)
PHYS 151L no online	6 section(s)	8 section(s)	3 section(s)	3 section(s)	none	2 section(s)	none
PHYS 152 no online	none	4 section(s)	4 section(s)	4 section(s)	none	2 section(s)	4 section(s)
PHYS 152L no online	none	4 section(s)	4 section(s)	4 section(s)	none	2 section(s)	none
PHYS 170 online = 6	6 section(s)	14 section(s) (DCO=6)	8 section(s)	4 section(s)	none	2 section(s)	1 section(s)
PHYS 170L no online	6 section(s)	14 section(s)	8 section(s)	4 section(s)	none	2 section(s)	none
PHYS 272 no online	none	11 section(s)	5 section(s)	3 section(s)	none	2 section(s)	1 section(s)
PHYS 272L no online	none	7 section(s)	5 section(s)	3 section(s)	none	2 section(s)	none
SOCS 225 no online	none	4 section(s)	none	none	none	none	none

Source: http://www.hawaii.edu/overlay/List_by_Programs.php?summary=yes&program=4

Courses Not Offered in the CCs

- all courses are offered somewhere in the CCs

Overall

The required courses are generally available on Oahu.

200-level Chemistry and Biology classes are not offered on the neighbor islands or at Honolulu CC.

There are few classes offered online, except CHEM 161, 162, MATH 241, 242, and 243. There are some sections of BIOL that are offered as cable classes, which are not included in the online total.

Recommendations

- Add SOCS 225, perhaps online. This course also meets requirements for other programs. This also would help the Psychology degrees.

Course Offerings for Biology (BS, UHM)

Course	HonCC	KapCC	LeeCC	WinCC	HawCC	KauCC	MauiC
BIOL 171 no online	4 section(s)	24 section(s)	11 section(s)	9 section(s)	4 section(s)	2 section(s)	3 section(s)
BIOL 171L no online	4 section(s)	20 section(s)	11 section(s)	12 section(s)	4 section(s)	2 section(s)	3 section(s)
BIOL 172 no online	none	18 section(s)	5 section(s)	8 section(s)	2 section(s)	2 section(s)	3 section(s)
BIOL 172L no online	none	17 section(s)	5 section(s)	5 section(s)	2 section(s)	2 section(s)	3 section(s)
BIOL 265 no online	none	7 section(s)	1 section(s)	none	none	none	none
BIOL 265L no online	none	7 section(s)	1 section(s)	none	none	none	none
BIOL 275 no online	none	7 section(s)	3 section(s)	1 section(s)	none	none	none
BIOL 275L no online	none	21 section(s)	3 section(s)	1 section(s)	none	none	none
CHEM 161 online = 24	6 section(s)	56 section(s) (DCO=23)	35 section(s)	15 section(s) (DCO=1)	4 section(s)	2 section(s)	3 section(s)
CHEM 161L no online	6 section(s)	55 section(s)	35 section(s)	15 section(s)	4 section(s)	2 section(s)	3 section(s)
CHEM 162 online = 12	5 section(s)	31 section(s) (DCO=8)	22 section(s)	12 section(s) (DCO=4)	1 section(s)	3 section(s)	4 section(s)
CHEM 162L no online	5 section(s)	20 section(s)	22 section(s)	8 section(s)	1 section(s)	3 section(s)	4 section(s)
CHEM 272 no online	none	8 section(s)	5 section(s)	2 section(s)	none	none	none
CHEM 272L no online	none	6 section(s)	5 section(s)	2 section(s)	none	none	none
CHEM 273 no online	none	8 section(s)	6 section(s)	1 section(s)	none	none	none
MATH 241 online = 3	6 section(s)	32 section(s)	25 section(s)	10 section(s) (DCO=3)	2 section(s)	4 section(s)	14 section(s)
MATH 242 online = 3	6 section(s)	20 section(s)	20 section(s) (DCO=3)	7 section(s)	1 section(s)	4 section(s)	10 section(s)
MATH 243 online = 3	2 section(s)	8 section(s)	12 section(s) (DCO=3)	6 section(s)	none	2 section(s)	7 section(s)

PHYS 151 no online	6 section(s)	8 section(s)	3 section(s)	3 section(s)	none	2 section(s)	3 section(s)
PHYS 151L no online	6 section(s)	8 section(s)	3 section(s)	3 section(s)	none	2 section(s)	none
PHYS 152 no online	none	4 section(s)	4 section(s)	4 section(s)	none	2 section(s)	4 section(s)
PHYS 152L no online	none	4 section(s)	4 section(s)	4 section(s)	none	2 section(s)	none
PHYS 170 online = 6	6 section(s)	14 section(s) (DCO=6)	8 section(s)	4 section(s)	none	2 section(s)	1 section(s)
PHYS 170L no online	6 section(s)	14 section(s)	8 section(s)	4 section(s)	none	2 section(s)	none
PHYS 272 no online	none	11 section(s)	5 section(s)	3 section(s)	none	2 section(s)	1 section(s)
PHYS 272L no online	none	7 section(s)	5 section(s)	3 section(s)	none	2 section(s)	none
SOCS 225 no online	none	4 section(s)	none	none	none	none	none

Source: http://www.hawaii.edu/overlay/List_by_Programs.php?summary=yes&program=42

Courses Not Offered in the CCs

- all courses are offered somewhere in the community colleges

Overall

The required courses are generally available on Oahu.

200-level Chemistry and Biology classes are not offered on the neighbor islands or at Honolulu CC.

There are few classes offered online, except CHEM 161, 162, MATH 241, 242, and 243. There are some sections of BIOL that are offered as cable classes, which are not included in the online total.

Recommendations

- Add SOCS 225, perhaps online. This course also meets requirements for other programs. This course connects to the Biology and Psychology degrees.

Course Offerings for Business Administration, General (BA, UHWO)

Course	HonCC	KapCC	LeeCC	WinCC	HawCC	KauCC	MauiC
ACC 201 online = 81	15 section(s) (DCO=12)	71 section(s) (DCO=16)	52 section(s) (DCO=26)	21 section(s) (DCO=9)	24 section(s) (DCO=18)	4 section(s)	33 section(s)
ACC 202 online = 63	10 section(s) (DCO=7)	48 section(s) (DCO=13)	36 section(s) (DCO=22)	15 section(s) (DCO=7)	14 section(s) (DCO=14)	5 section(s)	26 section(s)
ECON 130 online = 77	18 section(s) (DCO=5)	33 section(s) (DCO=7)	61 section(s) (DCO=34)	21 section(s) (DCO=8)	9 section(s) (DCO=9)	7 section(s)	35 section(s) (DCO=14)
ECON 131 online = 55	12 section(s) (DCO=2)	14 section(s) (DCO=7)	49 section(s) (DCO=18)	20 section(s) (DCO=9)	9 section(s) (DCO=9)	5 section(s)	34 section(s) (DCO=10)
ENG 209 online = 128	12 section(s)	68 section(s) (DCO=52)	50 section(s) (DCO=36)	29 section(s) (DCO=5)	none	none	90 section(s) (DCO=35)

Source: http://www.hawaii.edu/overlay/List_by_Programs.php?summary=yes&program=143

Courses Not Offered in the CCs

- all courses are offered somewhere in the community colleges

Overall

The courses are widely available in both online and face to face modalities.

Recommendations

- Consider system-wide resources such as online textbooks.

Course Offerings for Computer Science (BS, UHM)

Course	HonCC	KapCC	LeeCC	WinCC	HawCC	KauCC	MauiC
CHEM 161 online = 24	6 section(s)	56 section(s) (DCO=23)	35 section(s)	15 section(s) (DCO=1)	4 section(s)	2 section(s)	3 section(s)
CHEM 161L no online	6 section(s)	55 section(s)	35 section(s)	15 section(s)	4 section(s)	2 section(s)	3 section(s)
CHEM 162 online = 12	5 section(s)	31 section(s) (DCO=8)	22 section(s)	12 section(s) (DCO=4)	1 section(s)	3 section(s)	4 section(s)
CHEM 162L no online	5 section(s)	20 section(s)	22 section(s)	8 section(s)	1 section(s)	3 section(s)	4 section(s)
ICS 111 online = 14	6 section(s)	8 section(s)	19 section(s) (DCO=2)	13 section(s) (DCO=12)	none	2 section(s)	8 section(s)
ICS 141 online = 4	none	4 section(s)	8 section(s)	4 section(s) (DCO=4)	none	none	none
ICS 211 online = 7	1 section(s)	4 section(s)	9 section(s) (DCO=1)	7 section(s) (DCO=6)	none	none	none
ICS 212 no online	none	none	5 section(s)	none	none	none	none
ICS 241 online = 1	none	2 section(s)	5 section(s)	1 section(s) (DCO=1)	none	none	none
MATH 241 online = 3	6 section(s)	32 section(s)	25 section(s)	10 section(s) (DCO=3)	2 section(s)	4 section(s)	14 section(s)
MATH 242 online = 3	6 section(s)	20 section(s)	20 section(s) (DCO=3)	7 section(s)	1 section(s)	4 section(s)	10 section(s)
PHYS 151 no online	6 section(s)	8 section(s)	3 section(s)	3 section(s)	none	2 section(s)	3 section(s)
PHYS 151L no online	6 section(s)	8 section(s)	3 section(s)	3 section(s)	none	2 section(s)	none
PHYS 152 no online	none	4 section(s)	4 section(s)	4 section(s)	none	2 section(s)	4 section(s)
PHYS 152L no online	none	4 section(s)	4 section(s)	4 section(s)	none	2 section(s)	none
PHYS 170 online = 6	6 section(s)	14 section(s) (DCO=6)	8 section(s)	4 section(s)	none	2 section(s)	1 section(s)
PHYS 170L no online	6 section(s)	14 section(s)	8 section(s)	4 section(s)	none	2 section(s)	none
PHYS 272 no online	none	11 section(s)	5 section(s)	3 section(s)	none	2 section(s)	1 section(s)

PHYS 272L no online	none	7 section(s)	5 section(s)	3 section(s)	none	2 section(s)	none
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Source: http://www.hawaii.edu/overlay/List_by_Programs.php?summary=yes&program=49

Courses Not Offered in the CCs

- all courses are offered somewhere in the community colleges

Overall

The classes are generally available on Oahu and most of the science classes are available on Kauai.

The more advanced computer science-specific courses are not available on the neighbor islands.

Recommendations

- consider expanding the online availability of the 200-level ICS classes
- consider creating shared resources, perhaps with UHM, to support the advanced ICS classes

Course Offerings for Electrical Engineering (BS, UHM)

Course	HonCC	KapCC	LeeCC	WinCC	HawCC	KauCC	MauiC
CHEM 161 online = 24	6 section(s)	56 section(s) (DCO=23)	35 section(s)	15 section(s) (DCO=1)	4 section(s)	2 section(s)	3 section(s)
CHEM 161L no online	6 section(s)	55 section(s)	35 section(s)	15 section(s)	4 section(s)	2 section(s)	3 section(s)
CHEM 162 online = 12	5 section(s)	31 section(s) (DCO=8)	22 section(s)	12 section(s) (DCO=4)	1 section(s)	3 section(s)	4 section(s)
COMG 251 online = 2	22 section(s) (DCO=2)	12 section(s)	48 section(s)	20 section(s)	6 section(s)	2 section(s)	4 section(s)
ECON 120 online = 13	6 section(s) (DCO=2)	34 section(s) (DCO=7)	29 section(s) (DCO=4)	none	none	none	14 section(s)
ECON 130 online = 77	18 section(s) (DCO=5)	33 section(s) (DCO=7)	61 section(s) (DCO=34)	21 section(s) (DCO=8)	9 section(s) (DCO=9)	7 section(s)	35 section(s) (DCO=14)
ECON 131 online = 55	12 section(s) (DCO=2)	14 section(s) (DCO=7)	49 section(s) (DCO=18)	20 section(s) (DCO=9)	9 section(s) (DCO=9)	5 section(s)	34 section(s) (DCO=10)
EE 160 no online	none	7 section(s)	7 section(s)	1 section(s)	none	none	none
EE 211 no online	none	6 section(s)	3 section(s)	1 section(s)	none	none	none
EE 213 no online	none	none	4 section(s)	none	none	none	none
EE 260 no online	none	2 section(s)	4 section(s)	none	none	none	none
EE 296 no online	none	6 section(s)	none	none	none	none	none
MATH 241 online = 3	6 section(s)	32 section(s)	25 section(s)	10 section(s) (DCO=3)	2 section(s)	4 section(s)	14 section(s)
MATH 242 online = 3	6 section(s)	20 section(s)	20 section(s) (DCO=3)	7 section(s)	1 section(s)	4 section(s)	10 section(s)
MATH 243 online = 3	2 section(s)	8 section(s)	12 section(s) (DCO=3)	6 section(s)	none	2 section(s)	7 section(s)
MATH 244 online = 2	none	7 section(s)	12 section(s) (DCO=2)	5 section(s)	none	2 section(s)	3 section(s)
PHYS 170 online = 6	6 section(s)	14 section(s) (DCO=6)	8 section(s)	4 section(s)	none	2 section(s)	1 section(s)
PHYS 170L no online	6 section(s)	14 section(s)	8 section(s)	4 section(s)	none	2 section(s)	none

PHYS 272 no online	none	11 section(s)	5 section(s)	3 section(s)	none	2 section(s)	1 section(s)
PHYS 272L no online	none	7 section(s)	5 section(s)	3 section(s)	none	2 section(s)	none
PHYS 274 no online	none	5 section(s)	4 section(s)	none	none	none	none

Source: http://www.hawaii.edu/overlay/List_by_Programs.php?summary=yes&program=108

Courses Not Offered in the CCs

- all courses are offered somewhere in the community colleges

Overall

Classes required by the Electrical Engineering degree are generally available at Kapi'olani and Leeward, with some being available at Windward.

Recommendations

- develop a strategy to make engineering courses available to the neighbor island students.

Course Offerings for Elementary Education (BeD, UHWO)

Course	HonCC	KapCC	LeeCC	WinCC	HawCC	KauCC	MauiC
ART 101 online = 78	35 section(s) (DCO=18)	57 section(s)	84 section(s) (DCO=15)	26 section(s) (DCO=2)	42 section(s) (DCO=26)	6 section(s)	70 section(s) (DCO=17)
COM 145 online = 58	none	none	7 section(s)	none	none	none	147 section(s) (DCO=58)
GEOG 102 online = 104	3 section(s)	34 section(s) (DCO=10)	24 section(s) (DCO=10)	7 section(s) (DCO=7)	21 section(s) (DCO=19)	none	65 section(s) (DCO=58)
GEOG 151 online = 17	none	14 section(s) (DCO=7)	17 section(s) (DCO=10)	1 section(s)	none	none	none
HIST 151 online = 171	53 section(s) (DCO=18)	98 section(s) (DCO=31)	152 section(s) (DCO=48)	49 section(s) (DCO=11)	70 section(s) (DCO=37)	22 section(s)	68 section(s) (DCO=26)
HWST 107 online = 146	59 section(s)	95 section(s) (DCO=54)	163 section(s) (DCO=47)	63 section(s) (DCO=22)	24 section(s) (DCO=23)	15 section(s)	72 section(s)
MATH 111 online = 3	none	5 section(s)	9 section(s)	3 section(s)	none	5 section(s) (DCO=3)	3 section(s)
MATH 112 online = 2	none	9 section(s)	9 section(s)	4 section(s)	none	6 section(s) (DCO=2)	4 section(s)
MUS 106 online = 6	6 section(s)	7 section(s) (DCO=6)	13 section(s)	3 section(s)	none	none	6 section(s)
MUS 107 online = 4	1 section(s)	15 section(s) (DCO=4)	25 section(s)	none	none	none	35 section(s)
MUS 108 no online	none	7 section(s)	20 section(s)	5 section(s)	none	none	none
MUS 253 no online	6 section(s)	7 section(s)	4 section(s)	4 section(s)	none	4 section(s)	6 section(s)
PSY 100 online = 169	39 section(s)	99 section(s) (DCO=27)	141 section(s) (DCO=29)	71 section(s) (DCO=20)	65 section(s) (DCO=32)	19 section(s)	134 section(s) (DCO=61)
SP 151 online = 31	90 section(s) (DCO=14)	141 section(s)	177 section(s) (DCO=11)	55 section(s)	none	43 section(s) (DCO=6)	39 section(s)
SP 251 online = 2	22 section(s) (DCO=2)	12 section(s)	48 section(s)	20 section(s)	none	2 section(s)	4 section(s)

Source: http://www.hawaii.edu/overlay/List_by_Programs.php?summary=yes&program=144

Courses Not Offered in the CCs

- all courses are offered somewhere in the community colleges

Overall

The course requirements are not specialized Education courses, and are generally available on Oahu, Maui, and online.

Recommendations

- verify how COM 145 connects to the communication courses at the community colleges in the transfer database
- consider creating MUS 108 as an online class

Course Offerings for Elementary Education and Early Childhood Education (BeD, UHM) and Elementary Education and Special Education (BeD, UHM)

Course	HonCC	KapCC	LeeCC	WinCC	HawCC	KauCC	MauiC
FAMR 230 online = 119	18 section(s)	98 section(s) (DCO=37)	44 section(s) (DCO=19)	36 section(s) (DCO=19)	65 section(s) (DCO=44)	20 section(s)	8 section(s)
HWST 107 online = 146	59 section(s)	95 section(s) (DCO=54)	163 section(s) (DCO=47)	63 section(s) (DCO=22)	24 section(s) (DCO=23)	15 section(s)	72 section(s)
MATH 111 online = 3	none	5 section(s)	9 section(s)	3 section(s)	none	5 section(s) (DCO=3)	3 section(s)
MATH 112 online = 2	none	9 section(s)	9 section(s)	4 section(s)	none	6 section(s) (DCO=2)	4 section(s)
MUS 253 no online	6 section(s)	7 section(s)	4 section(s)	4 section(s)	none	4 section(s)	6 section(s)
PSY 240 online = 33	1 section(s)	8 section(s) (DCO=1)	39 section(s) (DCO=11)	9 section(s) (DCO=7)	none	none	43 section(s) (DCO=14)

Source: http://www.hawaii.edu/overlay/List_by_Programs.php?summary=yes&program=81

Courses Not Offered in the CCs

- SPED 201

Overall

The courses are generally available on Oahu, Maui, and online.

Recommendations

- consider adding SPED 201 as an online class

Course Offerings for English (BA, UHM)

Course	HonCC	KapCC	LeeCC	WinCC	HawCC	KauCC	MauiC
ENG 270 online = 28	4 section(s)	11 section(s) (DCO=8)	31 section(s)	1 section(s)	none	10 section(s)	23 section(s) (DCO=20)
ENG 271 online = 22	15 section(s)	16 section(s) (DCO=8)	32 section(s) (DCO=13)	9 section(s) (DCO=1)	none	7 section(s)	2 section(s)
ENG 272 online = 16	3 section(s)	84 section(s) (DCO=8)	18 section(s)	13 section(s)	none	7 section(s)	10 section(s) (DCO=8)
ENG 273 online = 23	none	37 section(s) (DCO=23)	none	none	none	none	none

Source: http://www.hawaii.edu/overlay/List_by_Programs.php?summary=yes&program=29

Courses Not Offered in the CCs

- all courses are offered somewhere in the community colleges

Overall

Courses are generally available, including online

Recommendations

- consider adding ENG 273 (Introduction to Literature: Creative Writing and Literature) at other colleges.

Course Offerings for General Public Administration (BA, UHWO)

[no courses listed]

Source: http://www.hawaii.edu/overlay/List_by_Programs.php?summary=yes&program=159

Courses Not Offered in the CCs

- SSCI 210 - likely equivalent to SOCS 225

Overall

There are minimal specific requirements for UHWO's General Public Administration BA.

Recommendations

- Approach UHWO to expand the pathway from the community colleges to this program

Course Offerings for Hawaiian Studies (BA, UHM)

Course	HonCC	KapCC	LeeCC	WinCC	HawCC	KauCC	MauiC
HAW 101 online = 11	6 section(s)	40 section(s) (DCO=2)	26 section(s)	15 section(s)	18 section(s) (DCO=9)	6 section(s)	18 section(s)
HAW 102 online = 15	5 section(s)	30 section(s) (DCO=6)	17 section(s)	17 section(s)	13 section(s) (DCO=9)	7 section(s)	20 section(s)
HAW 201 online = 8	4 section(s)	10 section(s)	12 section(s)	8 section(s)	11 section(s) (DCO=8)	4 section(s)	7 section(s)
HAW 202 online = 8	4 section(s)	7 section(s)	8 section(s)	10 section(s)	11 section(s) (DCO=8)	5 section(s)	8 section(s)
HWST 107 online = 146	59 section(s)	95 section(s) (DCO=54)	163 section(s) (DCO=47)	63 section(s) (DCO=22)	24 section(s) (DCO=23)	15 section(s)	72 section(s)
HWST 207 no online	none	none	none	none	none	none	2 section(s)
HWST 222 no online	none	none	none	5 section(s)	none	none	2 section(s)
HWST 270 online = 13	7 section(s)	8 section(s) (DCO=1)	12 section(s)	6 section(s)	none	none	22 section(s) (DCO=12)
HWST 281 no online	5 section(s)	none	none	none	none	4 section(s)	none
HWST 285 no online	none	1 section(s)	none	7 section(s)	none	none	none

Source: http://www.hawaii.edu/overlay/List_by_Programs.php?summary=yes&program=111

Courses Not Offered in the CCs

- HWST 224 - Introduction to Hawaiian Painting and Drawing Studio
- HWST 225 - Introduction to Hawaiian Printmaking Studio

Overall

The core courses are widely offered.

At least one class in the cluster that includes HWST 207, HWST 281, and HWST 285 is available at all campuses except Hawaii and Leeward.

The cluster that includes HWST 222, HWST 224, and HWST 225 is not generally available. HWST 224 and 225 have not been offered and HWST 222 is only offered at Windward and Maui

Recommendations

- add HWST 207 (Hawaiian Perspectives in Ahupua'a)
- consider adding HWST 224 and HWST 225 to the curriculum, or find equivalent classes that can be transferred.

Course Offerings for Information and Computer Science (BA, UHM)

Course	HonCC	KapCC	LeeCC	WinCC	HawCC	KauCC	MauiC
ICS 111 online = 14	6 section(s)	8 section(s)	19 section(s) (DCO=2)	13 section(s) (DCO=12)	none	2 section(s)	8 section(s)
ICS 141 online = 4	none	4 section(s)	8 section(s)	4 section(s) (DCO=4)	none	none	none
ICS 211 online = 7	1 section(s)	4 section(s)	9 section(s) (DCO=1)	7 section(s) (DCO=6)	none	none	none
ICS 212 no online	none	none	5 section(s)	none	none	none	none
ICS 241 online = 1	none	2 section(s)	5 section(s)	1 section(s) (DCO=1)	none	none	none

Source: http://www.hawaii.edu/overlay/List_by_Programs.php?summary=yes&program=48

Courses Not Offered in the CCs

- all courses are offered somewhere in the community colleges

Overall

The classes are generally available on Oahu or online, but the more advanced computer science-specific courses are not available on the neighbor islands.

See the information for the Computer Science (BS) degree above.

Recommendations

- consider expanding the online availability of the 200-level ICS classes
- consider creating shared resources, perhaps with UHM, to support the advanced ICS classes

Course Offerings for Kinesiology & Rehabilitation Science: Health, Exercise Science and Lifestyle Management (BS, UHM)

Course	HonCC	KapCC	LeeCC	WinCC	HawCC	KauCC	MauiC
BIOC 241 online = 52	3 section(s)	7 section(s)	34 section(s) (DCO=13)	4 section(s) (DCO=4)	35 section(s) (DCO=35)	none	none
BIOL 171 no online	4 section(s)	24 section(s)	11 section(s)	9 section(s)	4 section(s)	2 section(s)	3 section(s)
BIOL 171L no online	4 section(s)	20 section(s)	11 section(s)	12 section(s)	4 section(s)	2 section(s)	3 section(s)
BIOL 172 no online	none	18 section(s)	5 section(s)	8 section(s)	2 section(s)	2 section(s)	3 section(s)
BIOL 172L no online	none	17 section(s)	5 section(s)	5 section(s)	2 section(s)	2 section(s)	3 section(s)
BIOL 275 no online	none	7 section(s)	3 section(s)	1 section(s)	none	none	none
CHEM 161 online = 24	6 section(s)	56 section(s) (DCO=23)	35 section(s)	15 section(s) (DCO=1)	4 section(s)	2 section(s)	3 section(s)
CHEM 161L no online	6 section(s)	55 section(s)	35 section(s)	15 section(s)	4 section(s)	2 section(s)	3 section(s)
CHEM 162 online = 12	5 section(s)	31 section(s) (DCO=8)	22 section(s)	12 section(s) (DCO=4)	1 section(s)	3 section(s)	4 section(s)
CHEM 162L no online	5 section(s)	20 section(s)	22 section(s)	8 section(s)	1 section(s)	3 section(s)	4 section(s)
CHEM 272 no online	none	8 section(s)	5 section(s)	2 section(s)	none	none	none
CHEM 272L no online	none	6 section(s)	5 section(s)	2 section(s)	none	none	none
FAMR 230 online = 119	18 section(s)	98 section(s) (DCO=37)	44 section(s) (DCO=19)	36 section(s) (DCO=19)	65 section(s) (DCO=44)	20 section(s)	8 section(s)
FSHN 185 online = 144	22 section(s) (DCO=5)	81 section(s) (DCO=25)	7 section(s)	4 section(s)	1 section(s)	none	159 sections (DCO=114)
ICS 101B online = 131	12 section(s)	91 section(s) (DCO=37)	25 section(s) (DCO=18)	29 section(s) (DCO=13)	9 section(s)	5 section(s)	107 section(s) (DCO=63)
MATH 241 online = 3	6 section(s)	32 section(s)	25 section(s)	10 section(s) (DCO=3)	2 section(s)	4 section(s)	14 section(s)
MICR 130 online = 21	12 section(s)	50 section(s)	65 section(s) (DCO=21)	25 section(s)	15 section(s)	7 section(s)	25 section(s)

MICR 140L no online	2 section(s)	28 section(s)	33 section(s)	10 section(s)	none	7 section(s)	none
PHYL 141 online = 52	13 section(s)	124 section(s) (DCO=39)	none	15 section(s) (DCO=2)	34 section(s) (DCO=11)	10 section(s)	none
PHYL 141L online = 35	13 section(s)	145 section(s) (DCO=27)	none	18 section(s)	34 section(s) (DCO=8)	10 section(s)	none
PHYL 142 online = 43	9 section(s)	72 section(s) (DCO=29)	none	18 section(s) (DCO=3)	32 section(s) (DCO=11)	11 section(s)	none
PHYL 142L online = 29	9 section(s)	90 section(s) (DCO=22)	none	21 section(s)	31 section(s) (DCO=7)	11 section(s)	none
PHYS 152 no online	none	4 section(s)	4 section(s)	4 section(s)	none	2 section(s)	4 section(s)
PHYS 152L no online	none	4 section(s)	4 section(s)	4 section(s)	none	2 section(s)	none
PSY 220 no online	2 section(s)	none	none	none	none	20 section(s)	none
PSY 230 no online	1 section(s)	3 section(s)	none	none	3 section(s)	none	none
PSY 240 online = 33	1 section(s)	8 section(s) (DCO=1)	39 section(s) (DCO=11)	9 section(s) (DCO=7)	none	none	43 section(s) (DCO=14)

Source: http://www.hawaii.edu/overlay/List_by_Programs.php?summary=yes&program=83

Courses Not Offered in the CCs

- KRS 152
- KRS 153
- KRS 210
- KRS 270
- PH 201
- PHYL 100/100L
- PHYL 103
- PHYL 151/L
- PHYL 170/L

Overall

No community college offers the core Kinesiology courses.
The general courses are covered.

Recommendations

- one of the community colleges could consider creating a committed pathway into the program

Course Offerings for Mechanical Engineering (BS, UHM)

Course	HonCC	KapCC	LeeCC	WinCC	HawCC	KauCC	MauiC
CEE 270 online = 5	none	11 section(s) (DCO=5)	4 section(s)	none	none	none	none
CEE 271 no online	none	8 section(s)	4 section(s)	none	none	none	none
CHEM 161 online = 24	6 section(s)	56 section(s) (DCO=23)	35 section(s)	15 section(s) (DCO=1)	4 section(s)	2 section(s)	3 section(s)
CHEM 161L no online	6 section(s)	55 section(s)	35 section(s)	15 section(s)	4 section(s)	2 section(s)	3 section(s)
CHEM 162 online = 12	5 section(s)	31 section(s) (DCO=8)	22 section(s)	12 section(s) (DCO=4)	1 section(s)	3 section(s)	4 section(s)
COMG 251 online = 2	22 section(s) (DCO=2)	12 section(s)	48 section(s)	20 section(s)	6 section(s)	2 section(s)	4 section(s)
ECON 120 online = 13	6 section(s) (DCO=2)	34 section(s) (DCO=7)	29 section(s) (DCO=4)	none	none	none	14 section(s)
ECON 130 online = 77	18 section(s) (DCO=5)	33 section(s) (DCO=7)	61 section(s) (DCO=34)	21 section(s) (DCO=8)	9 section(s) (DCO=9)	7 section(s)	35 section(s) (DCO=14)
ECON 131 online = 55	12 section(s) (DCO=2)	14 section(s) (DCO=7)	49 section(s) (DCO=18)	20 section(s) (DCO=9)	9 section(s) (DCO=9)	5 section(s)	34 section(s) (DCO=10)
EE 160 no online	none	7 section(s)	7 section(s)	1 section(s)	none	none	none
EE 211 no online	none	6 section(s)	3 section(s)	1 section(s)	none	none	none
MATH 241 online = 3	6 section(s)	32 section(s)	25 section(s)	10 section(s) (DCO=3)	2 section(s)	4 section(s)	14 section(s)
MATH 242 online = 3	6 section(s)	20 section(s)	20 section(s) (DCO=3)	7 section(s)	1 section(s)	4 section(s)	10 section(s)
MATH 243 online = 3	2 section(s)	8 section(s)	12 section(s) (DCO=3)	6 section(s)	none	2 section(s)	7 section(s)
MATH 244 online = 2	none	7 section(s)	12 section(s) (DCO=2)	5 section(s)	none	2 section(s)	3 section(s)
ME 213 no online	none	5 section(s)	4 section(s)	none	none	none	none
PHYS 170 online = 6	6 section(s)	14 section(s) (DCO=6)	8 section(s)	4 section(s)	none	2 section(s)	1 section(s)
PHYS 170L no online	6 section(s)	14 section(s)	8 section(s)	4 section(s)	none	2 section(s)	none

PHYS 272 no online	none	11 section(s)	5 section(s)	3 section(s)	none	2 section(s)	1 section(s)
PHYS 272L no online	none	7 section(s)	5 section(s)	3 section(s)	none	2 section(s)	none

Source: http://www.hawaii.edu/overlay/List_by_Programs.php?summary=yes&program=109

Courses Not Offered in the CCs

- MATH 190 (can also be met by EE 160)
- ME 271 (can also be met by CEE 271)

Overall

Classes required by the Mechanical Engineering degree are generally available at Kapi'olani and Leeward, with some being available at Windward.

Recommendations

- develop a strategy to make engineering courses available to the neighbor island students.

Course Offerings for Nursing (BS, UHM)

Course	HonCC	KapCC	LeeCC	WinCC	HawCC	KauCC	MauiC
MICR 130 online = 21	12 section(s)	50 section(s)	65 section(s) (DCO=21)	25 section(s)	15 section(s)	7 section(s)	25 section(s)
NURS 210 no online	none	8 section(s)	none	none	none	3 section(s)	6 section(s)
NURS 211 no online	none	9 section(s)	none	none	none	3 section(s)	6 section(s)
NURS 212 no online	none	11 section(s)	none	none	none	3 section(s)	6 section(s)
NURS 220 no online	none	8 section(s)	none	none	none	4 section(s)	2 section(s)
PHRM 203 online = 29	none	17 section(s)	19 section(s) (DCO=19)	19 section(s) (DCO=10)	3 section(s)	none	29 section(s)
PHYL 141 online = 52	13 section(s)	124 section(s) (DCO=39)	none	15 section(s) (DCO=2)	34 section(s) (DCO=11)	10 section(s)	none
PHYL 141L online = 35	13 section(s)	145 section(s) (DCO=27)	none	18 section(s)	34 section(s) (DCO=8)	10 section(s)	none
PHYL 142 online = 43	9 section(s)	72 section(s) (DCO=29)	none	18 section(s) (DCO=3)	32 section(s) (DCO=11)	11 section(s)	none
PHYL 142L online = 29	9 section(s)	90 section(s) (DCO=22)	none	21 section(s)	31 section(s) (DCO=7)	11 section(s)	none

Source: http://www.hawaii.edu/overlay/List_by_Programs.php?summary=yes&program=115

Courses Not Offered in the CCs

- all courses are offered somewhere in the community colleges

Overall

The classes are generally available and many of the non-nursing courses are offered online.

Recommendations

- none

Course Offerings for Political Science (BA, UHM)

[no courses listed]

Source: http://www.hawaii.edu/overlay/List_by_Programs.php?summary=yes&program=66

Overall

No specific courses are required. They only require a single "POLS 100-level or POLS 200-level" course.

Recommendations

- Approach the Political Science department to develop a meaningful

Course Offerings for Psychology (BA, UHM)

Course	HonCC	KapCC	LeeCC	WinCC	HawCC	KauCC	MauiC
PSY 100 online = 169	39 section(s)	99 section(s) (DCO=27)	141 section(s) (DCO=29)	71 section(s) (DCO=20)	65 section(s) (DCO=32)	19 section(s)	134 section(s) (DCO=61)
PSY 212 online = 8	3 section(s)	8 section(s)	none	none	none	none	8 section(s) (DCO=8)
PSY 225 online = 12	3 section(s)	none	none	none	none	none	12 section(s) (DCO=12)
SOCS 225 no online	none	4 section(s)	none	none	none	none	none

Source: http://www.hawaii.edu/overlay/List_by_Programs.php?summary=yes&program=67

Courses Not Offered in the CCs

- all courses are offered somewhere in the community colleges

Overall

Courses are generally available and available online, although the number of sections of 200-level classes may be limited.

Recommendations

- Add SOCS 225, perhaps online. This course also meets requirements for other programs. This course connects to the Biology and Psychology degrees, as well as others at UHM.

Course Offerings for Psychology (BS, UHM)

Course	HonCC	KapCC	LeeCC	WinCC	HawCC	KauCC	MauiC
BIOL 171 no online	4 section(s)	24 section(s)	11 section(s)	9 section(s)	4 section(s)	2 section(s)	3 section(s)
BIOL 171L no online	4 section(s)	20 section(s)	11 section(s)	12 section(s)	4 section(s)	2 section(s)	3 section(s)
BIOL 172 no online	none	18 section(s)	5 section(s)	8 section(s)	2 section(s)	2 section(s)	3 section(s)
BIOL 172L no online	none	17 section(s)	5 section(s)	5 section(s)	2 section(s)	2 section(s)	3 section(s)
PSY 100 online = 169	39 section(s)	99 section(s) (DCO=27)	141 section(s) (DCO=29)	71 section(s) (DCO=20)	65 section(s) (DCO=32)	19 section(s)	134 section(s) (DCO=61)
PSY 212 online = 8	3 section(s)	8 section(s)	none	none	none	none	8 section(s) (DCO=8)
PSY 225 online = 12	3 section(s)	none	none	none	none	none	12 section(s) (DCO=12)
SOCS 225 no online	none	4 section(s)	none	none	none	none	none

Source: http://www.hawaii.edu/overlay/List_by_Programs.php?summary=yes&program=68

Courses Not Offered in the CCs

- all courses are offered somewhere in the community colleges

Overall

Courses are generally available and available online, although the number of sections of 200-level classes may be limited.

There are some sections of BIOL that are offered as cable classes, which are not included in the online total.

Recommendations

- Add SOCS 225, perhaps online. This course also meets requirements for other programs. This course connects to the Biology and Psychology degrees.

**Course Offerings for Travel Industry Management: Tourism/Transportation Management (BS, UHM)
and Travel Industry Management: Hospitality Management (BS, UHM)**

Course	HonCC	KapCC	LeeCC	WinCC	HawCC	KauCC	MauiC
ACC 201 online = 93	15 section(s) (DCO=12)	71 section(s) (DCO=16)	77 section(s) (DCO=26)	21 section(s) (DCO=9)	24 section(s) (DCO=18)	33 section(s) (DCO=12)	33 section(s)
ACC 202 online = 63	10 section(s) (DCO=7)	48 section(s) (DCO=13)	44 section(s) (DCO=22)	15 section(s) (DCO=7)	14 section(s) (DCO=14)	5 section(s)	26 section(s)
BUS 250 no online	none	21 section(s)	none	none	none	none	none
COMG 151 online = 75	90 section(s) (DCO=14)	141 section(s)	177 section(s) (DCO=11)	55 section(s)	94 section(s) (DCO=44)	43 section(s) (DCO=6)	39 section(s)
COMG 251 online = 2	22 section(s) (DCO=2)	12 section(s)	48 section(s)	20 section(s)	6 section(s)	2 section(s)	4 section(s)
ECON 130 online = 77	18 section(s) (DCO=5)	33 section(s) (DCO=7)	61 section(s) (DCO=34)	21 section(s) (DCO=8)	9 section(s) (DCO=9)	7 section(s)	35 section(s) (DCO=14)
ICS 101B online = 131	12 section(s)	91 section(s) (DCO=37)	25 section(s) (DCO=18)	29 section(s) (DCO=13)	9 section(s)	5 section(s)	107 section(s) (DCO=63)
MATH 203 online = 3	2 section(s)	none	3 section(s)	3 section(s) (DCO=3)	none	none	4 section(s)
MATH 241 online = 3	6 section(s)	32 section(s)	25 section(s)	10 section(s) (DCO=3)	2 section(s)	4 section(s)	14 section(s)
TIM 100 online = 3	none	37 section(s) (DCO=3)	none	none	none	none	none
TIM 101 online = 50	none	36 section(s) (DCO=12)	7 section(s) (DCO=4)	none	6 section(s)	14 section(s) (DCO=7)	34 section(s) (DCO=27)
TIM 200 online = 2	none	26 section(s) (DCO=2)	none	none	none	none	1 section(s)

Sources: http://www.hawaii.edu/overlay/List_by_Programs.php?summary=yes&program=124
and: http://www.hawaii.edu/overlay/List_by_Programs.php?summary=yes&program=123

Courses Not Offered in the CCs

- NREM 203 (also met by BUS 250, MATH 203, MATH 215, or MATH 241)
- TIM 102 (Food and World Cultures)

Overall

With the exception of TIM 201, TIM classes are available at Kapi'olani and some are available on the neighbor islands.

Recommendations

- Develop BUS 250, perhaps as an online course to create a clearer pathway to the School of Business. The course would also connect to Accounting.
- Consider developing TIM 102 as an online class, or make it available on several campuses. It is an FGB at UHM
(<http://www.catalog.hawaii.edu/courses/departments/tim.htm>)