# IMPERIAL VALLEY COLLEGE PROGRAM REVIEW COMPLIANCE FORM AND REQUEST FOR RESOURCES

DEPARTMENT	ne- Lig	le Sci	ACADEMIC YR. 12 13
rehensive Program Review	Annual A	ssessment	Request for Resources (check all tha
your Program Review data as well as il changes to area needs and subseque			date to your Comprehensive Program dat this time.
annual Program Review Assessment e changed as a result of your annual	only and have no chang	es to area needs, sign below	submitted to the appropriate Dean/VP. w and submit this form to appropriate I e the appropriate Request for Resource
opriate Dean/VP.	3/1/13	De	wire
rogram Chair Director	Date	Signature of Area Dean	Γ
rea Vice President	3-1-13 Date		

he following documents to this Program Review Compliance form if you are requesting additional resources: sive Program Review

sis Form

Assessments

Resources Forms

## Academic Program Evaluation - LIFE SCIENCE Division - H & S Department - Science

# **Biology Courses**

TERM	Enrollment	Fill Rate	of Sections	Mass Cap	_	Avg. Class Size	FTES	FTEF	Productivity (FTES/FTEF)	Completion Rate	Success Rate
Fall 2009	620	114.81%	22	540	24.55	28.18	138.05	9.71	14.22	81%	66%
Spring 2010	655	99.39%	26	659	25.35	25.19	137.44	10.91	12.6	81%	70%
Fall 2010	559	108.33%	21	516	24.57	26.62	123.51	9.18	13.45	81%	70%
Spring 2011	620	102.48%	23	605	26.3	26.96	132.64	9.71	13.66	83%	71%
Fall 2011	573	107.10%	21	535	25.48	27.29	126.97	9.18	13.83	82%	73%
Spring 2012	598	99.67%	23	600	26.09	26	135.73	10.24	13.25	87%	72%
% Change Fall Semesters 09 - 11	-7.58%	-6.72%	-4.55%	-0.93%	3.79%	-3.16%	-8.03%	-5.46%	-2.74%	1.23%	10.61%
% Change Spring Semesters 10 - 12	-8.70%	0.28%	-11.54%	-8.95%	2.92%	3.22%	-1.24%	-6.14%	5.16%	7.41%	2.86%

# Life Science Courses - Associate Degree

Select a minimum of 18 units from: ANTH 100, BIOL 120, 122, 140, 150, 180, 182, 200, 202, 204, 206,220 AG/ENVS 110, CHEM 200, 202, 204, 206, GEOL 100, 110, MATH 119

#### PROGRAM COMPLETION

Number of certificates completed	Number of Associate Degrees Completed
Between Fall 2009 and Spring 2012	Between Fall 2009 and Spring 2012
N/A	5

#### Life Science Courses - ENROLLMENT, FILL RATE & WAIT LISTS

		Enrollment - # Sections							Fill Rate						
COURSES	Course Cap	F 09	\$ 10	F 10	S 11	F 11	5 12	F 09	S 10	F 10	\$ 11	F 11	5 12	5 13	
ANTH 100	40	151 - 3	150 - 3	150 - 3	158 - 3	140 - 3	132 - 3	125.8%	125.0%	125.0%	131.7%	116.7%	110.0%	2	
BIOL 120	25				26-1						104%		84%	1	
BIOL 122	25		15 - 1				21 - 1	Bund	62.50%		105500		84.00%		
BIOL 140	35		34 - 1		34 - 1		25 - 1		97.14%		97.14%		71.43%		
BIOL 150	35		28 - 1		27-1		18 - 1		80%		77.14%		51.43%	2	
BIOL 180	25	27 - 1		26-1		25 - 1		112.5%		108.33%	SERVE	100%			
BIOL 182	25		20 - 1		25 - 1		25 - 1		83.3%		100%		100%	12	
BIOL 200	25	56-2	46 - 2	46-2	49-2	50 - 2	48 - 2	116.67%	95.83%	95.83%	98%	100%	96%	14	
BIOL 202	25	26 - 1	25 - 1	51-2	23 - 1	26 - 1	48 - 2	104.17%	104.17%	108.33%	92%	104%	96%	15	
BIOL 204	25	50 - 2	49 - 2	48 - 2	49-2	50 - 2	48 - 2	91.67%	102.08%	100%	98%	100%	96%	36	
BIOL 206	25	23 - 1	23 - 1	27-1	23 - 1	23 - 1	25 - 1	112.50%	95.83%	112.50%	92%	92%	100%	4	
BIOL 220	25	28 - 1	50 - 2	53 - 2	58-2	54 - 2	74 - 3	120.83%	104.17%	110.42%	116%	108%	98.67%	37	
AG/ENVS 110	30	258 - 8	288 - 9	263 - 9	229-8	256 - 8	193 - 7	107.5%	107.08%	97.4%	95.42%	106.7%	97.2%	5	
CHEM 200	25	33 - 1	28 - 1	27 - 1	23 - 1	25 - 1	19-1	137.50%	116.67%	112.50%	92%	100%	76%	15	
CHEM 202	25	14-1	27 - 1	16-1	19-1	15 - 1	12 - 1	58.33%	112.50%	66.67%	76%	60%	48%		
CHEM 204	25		18 - 1						75%						
CHEM 206											KAR III				
GEOL 100	35	83 - 2	56 - 2	64 - 2	54 - 2	46 - 2	45 - 2	115.3%	116.67%	133.33%	112.50%	92%	90%	4	
GEOL 110	35	155 - 4	167 - 5	158-4	132 - 4	108 - 3	88 - 3	110.71%	159.05%	112.86%	188.57%	102.86%	83.81%	2	
MATH 119	30	182 - 6	200 - 6	304 - 9	212-6	259 - 8	289 - 8	101.11%	133.33%	112.59%	141.33%	107.92%	120.42%	114	

# Life Science Courses - PRODUCTIVITY

				TES	art res	LENGTH	FTEF					Productivity						
COURSES	F 09	\$10	F 10	S 11	F11	S 12	F 09	S 10	F 10	S 11	F 11	S 12	F 09	S 10	F 10	5 11	F 11	S 12
ANTH 100	15.53	15.42	15.42	16.25	14.40	13.58	0.60	0.60	0.60	0.60	0.60	0.60	25.88	25.70	25.70	27.08	24.00	22.63
BIOL 120				7.13						0.27						26.41		
BIOL 122		4.11				5.76		0.27				0.27		15.22				21.33
BIOL 140		3.50		3.50		2.57		0.20		0.20				17.50		17.50		
BIOL 150		2.88		2.78		1.85		0.20		0.20				14.40		13.90		
BIOL 180	5.55		5.35		5.14		0.27		0.27		0.27		20.56		19.81		19.04	
BIOL 182		4.11		5.14		5.14		0.27		0.27				15.22		19.04		16 63
BIOL 200	15.36	12.62	12.61	13.44	13.72	13.16	0.54	0.54	0.54	0.54	0.54	0.54	28.44	23.37	23.35	24.89	25.41	24.37
BIOL 202	6.86	6.86	7.13	6.31	7.13	13.16	0.27	0.27	0.27	0.27	0.27	0.54	25.41	25.41	26.41	23.37	26.41	24.37
BIOL 204	18.10	13.44	13.17	13.44	13.72	13.16	0.54	0.54	0.54	0.54	0.54	0.54	33.52	24.89	24.39	24.89	25.41	24.37
BIOL 206	7.41	6.31	7.41	6.31	6.31	6.86	0.27	0.27	0.27	0.27	0.27	0.27	27.44	23.37	27.44	23.37	23.37	25.41
BIOL 220	17.90	15.42	16.35	17.90	16.66	22.83	0.66	0.66	0.66	0.66	0.66	0.99	27.12	23.36	24.77	27.12	25.24	23.06
AG/ENVS 110	26.55	29.64	27.05	23.55	26.33	19.85	1.60	1.80	1.80	1.60	1.60	1.40	16.59	16.47	15.03	14.72	16.46	14.18
CHEM 200	10.18	8.64	8.33	7.10	7.71	5.86	0.33	0.33	0.33	0.33	0.33	0.33	30.85	26.18	25.24	21.52	23.36	17.76
CHEM 202	4.32	8.33	4.94	5.86	4.63	3.70	0.33	0.33	0.33	0.33	0.33	0.33	13.09	25.24	14.97	17.76	14.03	11.21
CHEM 204		5.55	Shara a					0.33					- 100/8/W	16.82				
CHEM 206																		
GEOL 100	17.07	11.52	13.17	11.11	9.46	9.25	0.81	0.54	0.54	0.54	0.54	0.54	21.07	21.33	24.39	20.57	17.52	17.13
GEOL 110	15.94	17.18	16.25	13.58	11.11	9.05	0.80	1.00	0.80	0.80	0.60	0.60	19.93	17.18	20.31	16.98	18.52	15.08
MATH 119	24.97	27.43	41.69	29.08	35.51	39.63	1.62	1.62	2.43	1.62	2.16	2.16	15.41	16.93	17.16	17.95	16.44	18.35

# Life Science Courses - COMPLETION & SUCCESS RATES

			Complet	ion Rate		Success Rate						
COURSES	F 09	S 10	F 10	S 11	F 11	S 12	F 09	S 10	F 10	S 11	F 11	S 12
ANTH 100	87.0%	88.0%	87.9%	91.1%	92.6%	92.0%	78.7%	79.7%	60.2%	85.5%	78%	85.4%
BIOL 120				96%			<b>EXERCISE</b>			92%		
BIOL 122		93%		74%		81%		87%		35%		81%
BIOL 140	MI DOWN	82%		81%		84%		59%		63%		48%
BIOL 150		79%				83%		79%				61%
BIOL 180	70%		62%		72%		63%		54%		68%	
BIOL 182		80%		84%		84%		55%		60%		72%
BIOL 200	80%	70%	72%	76%	64%	81%	77%	63%	57%	57%	52%	65%
BIOL 202	52%	88%	85%	74%	96%	88%	48%	80%	77%	70%	81%	75%
BIOL 204	59%	57%	50%	53%	62%	63%	47%	45%	46%	37%	52%	38%
BIOL 206	70%	61%	63%	74%	65%	80%	63%	61%	44%	65%	61%	66%
BIOL 220	91%	80%	91%	90%	76%	82%	72%	78%	77%	79%	76%	66%
AG/ENVS 110	89%	89%	87%	87%	94%	86%	66.0%	60.0%	66.0%	58.0%	69%	63.0%
CHEM 200	94%	61%	85%	83%	76%	79%	82%	61%	67%	61%	48%	53%
CHEM 202	93%	63%	75%	100%	67%	83%	79%	44%	69%	74%	47%	83%
CHEM 204	Sinne Si	78%						33%				
CHEM 206												
GEOL 100	86%	88%	78%	81%	65%	87%	66%	71%	55%	57%	57%	58%
GEOL 110	82%	77%	76%	83%	77%	73%	59%	52%	43%	46%	48%	48%
MATH 119	76%	84%	79%	87%	73%	86%	58%	68%	58%	70%	54%	64%

Recent Enrollment Demand:	Highx	Medium	_ Low
20 100 A HONE TO THE CASE OF T	10000000000000000000000000000000000000	100000000000000000000000000000000000000	
Projection for Future Demand:	Growing	Stablex	Declining
		10000	5
Opportunity Analysis: (Successes, 1	new curriculum develo	pment, alternative	delivery mechanisms, interdisciplinary strategies, etc.)
Currently, we only have 1.5 full-time	chemistry instructors,	with no part-time	instructors. We do not offer enough CHEM 100 sections to
			Chemistry instructor, both enrollment and number of
			more opportunities to take upper-level Chemistry classes.
		.0 0	
In addition, we could use two more b	oiology instructors, as v	ve have lost instru	ctors to retirement or advancement. With an additional
instructor teaching BIOL 100, and an	other one teaching ana	tomy and physiolo	ogy courses, we would be able to provide students with
			, and to help students get through the science classes to get
into the nursing program.	VI 1000		
	6100	200	000000
Summary of Program "Health" Eva	luation: (Including co	nsideration of size,	, score, productivity and quality of outcomes)
The classes that comprise this degree	e are classes that typica	ally fill above cap.	
While there have been only 5 degree.	s awarded in the past 3	years, overall, this	s is a very productive and healthy program, in terms of the
FTES the program generates, and the	fill rates of the classes		

## **Student Learning Outcomes and Program Learning Outcomes**

#### Student Learning Outcomes Assessment -completion

SLOs for Life Science degree classes have been assessed consistently.

Course	# Credits	Fall 2009	Spring 2010	Fall 2010	Spring 2011	Fall 2011	Spring 2012	Fall 2012	Spring 2013
BIOL120	4			如此是他们	i anno anno anno anno anno anno anno ann	AND THE PARTY OF T			Chien
BIOL122	4	22. 作品的 加维		<b>持成。地域於</b>		William Co.	1,2,3,4	<b>19</b> 400.1943519	E SANTAN PROPERTY.
BIOL140	3	<b>公司包括於關鍵</b>	1,2,3		2	And the same of the	4		BERTHER BERTH
BIOL150	3	BIT SAN SE	2	数、种类的	1	<b>建筑建筑的</b>	3		Gilison
BIOL180	4	1	NAME OF TAXABLE PARTY.	3	<b>基层等系统 多次形</b>	2	PROPERTY OF THE PARTY OF THE PA	1,4	Soldenship
BIOL182	4	all tales of the Carlotte		物之原验的	1	THE NEW YORK	4		Morrell
BIOL200	4	old	old	3	3	2	1	4	
BIOL202	4	old	4	2	1	4	3	1	
BIOL204	4	1	200	3	1	4	4	2	1 1000 579000
BIOL206	4	old	76 77 577 7	4	2	3	1	300000	Morrell
BIOL220	5	220,00000	2		3		5	1,4	0.00000
CHEM100	4	old	old	Yes	1,2,3,4	3		1,3	
CHEM160	5			- 5	V 33133	4,5	CAST SERVICE STATE	1,2,3	<b>斯林斯拉斯根据</b>
CHEM200	5	old	old	Yes	1,2,3,4,5	1		1,2,3,4,5	D 1000
CHEM202	5	old	old	Yes	1,2,3,4,5	3		1,3,4,5	
CHEM204	5	e was the	old	能力能够建	<b>的包括</b>		CONTRACTOR OF THE PARTY OF THE		<b>阿菲亚斯拉斯</b> 拉斯岛
CHEM206	5				网络维护 特別組	AC SPIERSON IN			
GEOL100	4	1					1	2	
GEOL110	3	old					2	1	
MATH 119	4	2000 STS		160 100 100 100 100		4		2,3	Leon

## **Program Learning Outcomes Assessment**

Four (4) PLOs have been identified for the Life Science degree, and one was assessed in the 2011-2012 academic year. We will probably reduce the number of PLOs for this degree to 3 in the future.

## Success Rate of Student Learning Outcomes

SLOs for Life Science classes are assessed each year the class is offered.

#### Success Rate of Program Learning Outcomes

Only one of 4 PLOs has been assessed currently, and the other 3 will be assessed this academic year.

#### **Future Goals of Program**

- We can improve this program with the addition of one new chemistry instructor, and two new biology instructors. Unless that happens, there is not much change that would occur with this program. With decreasing enrollment in CHEM 202, we had to cancel the class in Spring 2013.
- Our plan is to offer two sections of CHEM 200 in the Fall 2013 semester, and then one CHEM 200 and one CHEM 202 in the Spring 2014 semester to help increase enrollment in the CHEM 202 class

## **Resource Requests**

Any Identified Needs: Staffing, Technology, Budget/Planning, Facilities, Professional Development, Marketing

- Staffing: 1 Chemistry instructor, approximately \$80,000/year. We have been requesting this every year during APR and for CPR. A
  new Chemistry instructor is critical to help students get through CHEM 100, which is a prerequisite for chemistry classes (CHEM 200,
  202, 204, 206 in which enrollment has been declining), and is also a prerequisite for BIOL 200, 202, 206, and 220, which are the
  upper-level anatomy and physiology, and microbiology, classes that are needed for students to get into the nursing program.
- Staffing: 1 Biology instructor, approximately \$80,000/year. We have been requesting this every year during APR and for CPR. This
  position is critical for students to take BIOL 100, which is a prerequisite for upper-level biology classes that are needed for students to
  get into the nursing program.
- Staffing: 1 Anatomy & Physiology instructor, approximately \$80,000/year. We have been requesting this every year during APR and
  for CPR. This position is critical for students to get into the nursing program as we are not offering enough sections of BIOL 200, 202,
  204 or 206.
- Budget: Twelve (12) dissecting microscopes, \$216 each (\$25,920 total). For various biology classes. The ones we currently have are very old and do not work well
- · Technology: 1 laptop for instructors.