

FOOTHILL COLLEGE

Institutional Research and Planning

DATE: January 17, 2017

TO: Karen Erickson, Sarah Parikh & Jennifer Sinclair, Instructors

Lori Silverman, Interim Dean of Physical Sciences, Mathematics & Engineering

Nanette Solvason, Dean of Biological Health & Sciences

Paul Starer, Acting Associate Vice President of Instruction & Institutional Research Andrew LaManque, Interim Vice President of Instruction & Institutional Research

Lisa Ly, Acting College Researcher FROM:

RE: 2015-16 General Studies: Science Degree Recipients

Update

This report is an update to the original report, dated January 10, 2017, which was shared at the January 11, 2017 General Science Program Review Meeting. After meeting with program stakeholders, Institutional Research & Planning Office (IR&P) was asked to examine whether any of the 2015-16 General Science graduates enrolled in a Foothill Allied Health and/or De Anza nursing course during fall 2016 term. The finding can be found in section 4 of this report. All other sections remain unchanged.

Overview

The purpose of this report is to help facilitate program review discussion by providing initial findings of the 24 students who earned a General Science degree in 2015-16. In particular, the following three questions were provided to IR&P:

- 1. Of the students who received the General Science degree from Foothill during 2015-16, which courses did they use when applying for the degree?
- 2. Of the students who received the General Science degree during 2015-16, how many also received another degree or certificate during 2015-16? What were those other degrees or certificates in?
- 3. Of the students enrolled in any fall 2016 course at Foothill, how many have declared General Science as their major?

I. Ethnicity and Gender

- Latino/a and White students comprised the majority of the 2015-16 General Science degree recipients. Degree recipients were more likely to be female (71%) than male (29%).
 - 29% (7) Latino/a
 - 29% (7) White
 - 21% (5) Asian
 - 8% (2) Filipino
 - 8% (2) Other¹
 - 4% (1) African American

¹ Other includes Pacific Islander and decline to state.

II. Courses Used When Applying for Degree

In order to determine which courses students most likely used when they applied for the General Science degree, all credit- and degree-applicable courses with a successful outcome² were examined. The 24 students had a combined 467 course enrollment at Foothill. Enrollment was disaggregated by core and non-core courses, with core courses derived from these five areas³: Biology, Chemistry, Engineering/Computer Science/Astronomy/Physical Sciences & Engineering, Mathematics and Physics.

Core Courses with the most enrollment (at least 10) include the following:

1. Biology 2. Biology 40C 3. Mathematics 10 4. Biology 40B 5. Physics 12 6. Biology 41 7. Chemistry 30A

Table 1: General Science Program – Enrollment by Core Course

_			Table 1	. General sele	ence Frogr	aiii —	LIIIOIIIII	ent by core course			
	Subject and Course Number		Enrollment	Percent		Subject and Course Number			Enrollment	Percent	
1	BIOL	Biology	F040A	15	9%	21	BIOL	Biology	F009L	2	1%
2 [BIOL	Biology	F040C	15	9%	22	CHEM	Chemistry	F001A	2	1%
3 [MATH	Mathematics	F010.	15	9%	23	ENGR	Engineering	F010.	2	1%
4	BIOL	Biology	F040B	14	8%	24	MATH	Mathematics	F001A	2	1%
5 F	PHYS	Physics	F012.	13	7%	25	MATH	Mathematics	F048B	2	1%
6	BIOL	Biology	F041.	11	6%	26	MATH	Mathematics	F048C	2	1%
7 (CHEM	Chemistry	F030A	11	6%	27	BIOL	Biology	F013.	1	1%
8	ASTR	Astronomy	F010A	8	5%	28	CHEM	Chemistry	F001B	1	1%
9	ASTR	Astronomy	F010B	7	4%	29	CHEM	Chemistry	F001C	1	1%
10	BIOL	Biology	F014.	6	3%	30	CHEM	Chemistry	F012A	1	1%
11	BIOL	Biology	F045.	6	3%	31	ENGR	Engineering	F040.	1	1%
12	CHEM	Chemistry	F025.	6	3%	32	MATH	Mathematics	F001B	1	1%
13	BIOL	Biology	F010.	5	3%	33	MATH	Mathematics	F001C	1	1%
14	BIOL	Biology	F001A	3	2%	34	MATH	Mathematics	F048A	1	1%
15 E	BIOL	Biology	F001B	3	2%	35	PHYS	Physics	F002A	1	1%
16	BIOL	Biology	F001C	3	2%	36	PHYS	Physics	F002B	1	1%
17 E	BIOL	Biology	F009.	3	2%	37	PHYS	Physics	F002C	1	1%
18 (CHEM	Chemistry	F030B	3	2%	38	PHYS	Physics	F006.	1	1%
19	ASTR	Astronomy	F010L	2	1%		Total			175	100%
201	RIOI	Riology	EUUS)	1%						

- Degree recipients did not enroll in the following core courses:
 - Biology 12, 23, 28

- Chemistry 9, 12B, 12C, 20
- Engineering/Computer Science/Astronomy/PSE
 - Astronomy 10BH, 54H, and 77
 - Computer Science 1A or 1AH, 1B, 1C, 2A or 2AH, 2B, 2C, 3A, 10, 18, 21B, 49, 85A
 - Engineering 6, 11, 25, 28, 35, 37, 39, 45, 49, 62A, 62B, 62C, 62D, 81, 82, 83, 83A, 83B, 83C, 83E, 102
 - Physical Sciences & Engineering 51
- Mathematics 1AH, 1AHP, 1D, 2A, 2B, 11, 12, 22, 42, 44, 54H
- Physics 2AM, 2BM, 2CM, 4A, 4B, 4C, 4D, 54H

² Success course outcomes reflect course grades of A, B, C, or Pass.

³ Refer to appendix for program requirements and core course listing.

Non-core courses with the most enrollment (at least 10) include the following:

1. Health 21 2. Psychology 1 3. Political Science 1 4. English 1A 5. English 1B 6. Music 8

Table 2: General Science Program – Enrollment by Non-Core Course

Subject and Course Number					n – Enrollment by Non-Core Course							
2 PSYC Psychology	ŀ		Subject and Course Number									
	1	HLTH		F021.	15	5%	64	CIS	Computer Information Syst	F015A	1	0%
			Psychology	F001.	13	4%			Counseling	F005.	1	0%
	3	POLI	Political Science	F001.	12	4%	66	CNSL	Counseling	F175.	1	0%
6 MUS	- 1		English		11	4%			Communications Studies	F010.	1	0%
Tool			English	F001B	11	4%	68	CRLP	Career Life Planning	F070.	1	0%
MATH Mathematics	- 1		Music	F008.		3%			Dental Hygiene	F200L	1	0%
9 AHS Allied Health Sciences F200. 8 39% 72 ENGL English F012. 1 0% CRSL Counseling F050. 6 29% 73 ESILE Engl as Second Lang F025. 1 0% F012 C 1 1 0% F012 C			Communications Studies	F001A		3%	70	ECON	Economics	F001A	1	0%
10 CMS Communication Studies F02.5 6 2% 73 ESIL Engl as Second Lang F02.5 1 0%	8	MATH	Mathematics	F105.	9	3%			Emergency Medical Technic	F303.	1	0%
11 COMM	9	AHS	Allied Health Sciences	F200.	8	3%			English	F012.	1	0%
12 HIST	10	CNSL	Counseling	F050.		2%	73	ESLL	Engl as Second Lang	F025.	1	0%
13 HIST	11	COMM	Communications Studies	F012.	5	2%	74	ESLL	Engl as Second Lang	F026.	1	0%
14 MATH Methematics F220. 5 296 77 ESLL Engl as Second Lang F276. 1 0%	12	HIST	History	F017A	5	2%	75	ESLL	Engl as Second Lang	F210A	1	0%
15 RSPT Respiratory Therapy F200L 5 296 78 F.A. Fine Arts F001. 1 0%	13	HIST	History	F017C	5	2%	76		Engl as Second Lang	F227.	1	0%
18 COMM Communications Studies F002	14	MATH	Mathematics	F220.	5	2%	77	ESLL	Engl as Second Lang	F276.	1	0%
12 PHIL	15	RSPT	Respiratory Therapy	F200L	5	2%	78	FΑ	Fine Arts	F001.	1	0%
18 PSV	16	COMM	Communications Studies	F002.	4	1%	79	GEOG	Geography	F001.	1	0%
19 RT	17	PHIL	Philosophy	F025.	4	1%	80	GEOG	Geography	F002.	1	0%
20 SOC Sociology FOOI. 4 13% 83 GID Graphic & Interactive Des FOSC 1 0%	18	PSYC	Psychology	F040.	4	1%	81	GID	Graphic & Interactive Des	F053A	1	0%
22 CNSL Courseling F275 3 136 84 HIST History F004B 1 0%	19	RT	Radiologic Technology	F200L	4	1%	82	GID	Graphic & Interactive Des	F053B	1	0%
22 COMM Communications Studies F055. 3 136 85 HUNN Humanities F001A 1 086	20	soc	Sociology	F001.	4	1%	83	GID	Graphic & Interactive Des	F053C	1	0%
22 ENGL English F110. 3 196 86 JAPN Japanese F002. 1 0%	21	CNSL	Counseling	F275.	3	1%	84	HIST	History	F004B	1	0%
24 NATH Mathematics F221. 3	22	COMM	Communications Studies	F055.	3	1%	85	HUMN	Humanities	F001A	1	0%
25 PHED Physical Education F046 3 196 88 KINS Kinesiology F001 1 0%	23	ENGL	English	F110.	3	1%	86	JAPN	Japanese	F002.	1	0%
22	24	MATH	Mathematics	F221.	3	1%	87	JAPN	Japanese	F003.	1	0%
27 SOC Sociology FOOB. 3 13% 90 MUS Music FOOL. 1 0%	25	PHED	Physical Education	F046.	3	1%	88	KINS	Kinesiology	F001.	1	0%
28 ANTH Anthropology FO01. 2 1% 91 MUS Music FO03. 1 0% 29 ART Art FO01. 2 1% 99 MED Music FO10. 1 0% 30 BIOL Biology FO58. 2 1% 99 PHED Physical Education FO16. 1 0% 31 CNSL Counselling FO51. 2 1% 99 PHED Physical Education FO16A 1 0% 32 COMM Communications Studies FO01B 2 1% 99 PHED Physical Education FO20B 1 0% 35 EMT Emergency Medical Technic F304. 2 1% 99 PHED Physical Education F021. 1 0% 36 EMT Emergency Medical Technic F305. 2 1% 100 PHED Physical Education F021. 1 0% 37 ENGL English F209. 2 1% 100 PHED Physical Education F021. 1 0%<	26	PHED	Physical Education	F047B	3	1%	89	MDIA	Media Studies	F006.	1	0%
29 ART	27	SOC	Sociology	F008.	3	1%	90	MUS	Music	F001.	1	0%
30 BIOL Biology FOSB. 2 1% 94 PHED Physical Education FO10B 1 0% 31 CNSL Counseling FO51. 2 1% 94 PHED Physical Education FO16A 1 0% 32 COMM Communications Studies FO04. 2 1% 96 PHED Physical Education FO20A 1 0% 33 COMM Communications Studies FO04. 2 1% 96 PHED Physical Education FO20B 1 0% 34 ECON Economics FO01B 2 1% 97 PHED Physical Education FO21B 1 0% 35 EMT Emergency Medical Technic F304. 2 1% 99 PHED Physical Education FO21B 1 0% 36 EMT Emergency Medical Technic F305. 2 1% 99 PHED Physical Education FO21D 1 0% 36 EMT Emergency Medical Technic F304. 2 1% 99 PHED Physical Education FO21D 1 0% 37 ENGL English F209. 2 1% 100 PHED Physical Education F021D 1 0% 38 ESLL Englas Second Lang F226. 2 1% 101 PHED Physical Education F022B 1 0% 39 ESLL Englas Second Lang F236. 2 1% 102 PHED Physical Education F022B 1 0% 40 ESLL Englas Second Lang F237. 2 1% 103 PHED Physical Education F023B 1 0% 41 HLTH Health F055. 2 1% 104 PHED Physical Education F023B 1 0% 42 JAPN Japanese F001. 2 1% 106 PHED Physical Education F036A 1 0% 44 MUS Music F002D 2 1% 106 PHED Physical Education F037. 1 0% 45 PHED Physical Education F045C 1 0% 46 PHED Physical Education F045C 1 0% 47 PHED Physical Education F045C 1 0% 48 PHED Physical Education F045C 1 0% 49 PSYC Psychology F004. 2 1% 109 PHED Physical Education F045C 1 0% 49 PSYC Psychology F004. 2 1% 119 PHID PHID Physical Education F045C 1 0% 40 PHED Physical Education F045C 1 0% 41 PHED Physical Education F045C 1 0% 42 PHED Physical Education F045C 1 0% 43 PHED Physical Education F045C 1	28	ANTH	Anthropology	F001.	2	1%	91	MUS	Music	F003A	1	0%
31 CNSL Counseling F051. 2	29	ART	Art	F001.	2	1%	92	MUS	Music	F010.	1	0%
22 COMM Communications Studies F001B 2 1% 95 PHED Physical Education F020B 1 0%	30	BIOL	Biology	F058.	2	1%	93	PHED	Physical Education	F010B	1	0%
33 COMM Communications Studies F004 2 1% 96 PHED Physical Education F020B 1 0% 4 ECON Economics F001B 2 1% 97 PHED Physical Education F021. 1 0% 36 EMT Emergency Medical Technic F305. 2 1% 99 PHED Physical Education F021B 1 0% 36 EMT Emergency Medical Technic F305. 2 1% 99 PHED Physical Education F021D 1 0% 37 ENGL English F209. 2 1% 100 PHED Physical Education F022D 1 0% 37 ENGL English F209. 2 1% 100 PHED Physical Education F022. 1 0% 39 ESLL English F206. 2 1% 102 PHED Physical Education F022B 1 0% 0% 0% 0% 0% 0% 0%	31	CNSL	Counseling	F051.	2	1%	94	PHED	Physical Education	F016A	1	0%
Second Economics F001B 2 1% 97 PHED Physical Education F021 1 0%	32	COMM	Communications Studies	F001B	2	1%	95	PHED	Physical Education	F020A	1	0%
SEMT Emergency Medical Technic F304. 2 1% 98 PHED Physical Education F021B 1 0% 36 EMT Emergency Medical Technic F305. 2 1% 99 PHED Physical Education F021D 1 0% 37 ENGL English F209. 2 1% 100 PHED Physical Education F021D 1 0% 38 ESLL Engl as Second Lang F226. 2 1% 101 PHED Physical Education F022B 1 0% 39 ESLL Engl as Second Lang F236. 2 1% 102 PHED Physical Education F022B 1 0% 0% 0% 0% 0% 0% 0%	33	COMM	Communications Studies	F004.	2	1%	96	PHED	Physical Education	F020B	1	0%
36 EMT Emergency Medical Technic F305. 2 1% 99 PHED Physical Education F021D 1 0% 37 ENIGL English F209. 2 1% 100 PHED Physical Education F022. 1 0% 38 ESLL Engl as Second Lang F236. 2 1% 102 PHED Physical Education F023B 1 0% 39 ESLL Engl as Second Lang F237. 2 1% 103 PHED Physical Education F023B 1 0% 40 ESLL Engl as Second Lang F237. 2 1% 104 PHED Physical Education F023B 1 0% 41 HLTH Health F055. 2 1% 104 PHED Physical Education F036A 1 0% 42 JAPN Japanese F001. 2 1% 106 PHED Physical Education F037. 1 0% 44 MUS Music F001L 2 1% 106 PHED Physical Education F045C	34	ECON	Economics	F001B	2	1%	97	PHED	Physical Education	F021.	1	0%
37 ENGL English F209. 2 1% 100 PHED Physical Education F022. 1 0% 38 ESLL Engl as Second Lang F236. 2 1% 101 PHED Physical Education F023B 1 0% 40 ESLL Engl as Second Lang F237. 2 1% 103 PHED Physical Education F023B 1 0% 40 ESLL Engl as Second Lang F237. 2 1% 103 PHED Physical Education F029. 1 0% 41 HLTH Health F055. 2 1% 104 PHED Physical Education F036A 1 0% 42 JAPN Japanese F001. 2 1% 106 PHED Physical Education F037. 1 0% 44 MUS Music F002D 2 1% 107 PHED Physical Education F045. 1 0% 45 PHED Physical Education F021A 2 1% 109 PHED Physical Education F045. <	35	EMT	Emergency Medical Technic	F304.	2	1%	98	PHED	Physical Education	F021B	1	0%
38 ESLL Engl as Second Lang F226. 2 1% 101 PHED Physical Education F022B 1 0% 39 ESLL Engl as Second Lang F236. 2 1% 102 PHED Physical Education F023B 1 0% 41 HLTH Health F055. 2 1% 104 PHED Physical Education F036A 1 0% 42 JAPN Japanese F001. 2 1% 105 PHED Physical Education F036A 1 0% 43 MDIA Media Studies F011. 2 1% 106 PHED Physical Education F037. 1 0% 45 PHED Physical Education F021A 2 1% 106 PHED Physical Education F045. 1 0% 45 PHED Physical Education F021A 2 1% 108 PHED Physical Education F045. 1 0% 46 PHED Physical Education F022C 2 1% 109 PHED Physical Education F	36	EMT	Emergency Medical Technic	F305.	2	1%	99	PHED	Physical Education	F021D	1	0%
SSLL Engl as Second Lang F236. 2 1% 102 PHED Physical Education F023B 1 0% 40 ESLL Engl as Second Lang F237. 2 1% 103 PHED Physical Education F029. 1 0% 41 HLTH Health F055. 2 1% 104 PHED Physical Education F036A 1 0% 42 JAPN Japanese F001. 2 1% 105 PHED Physical Education F037. 1 0% 43 MDIA Media Studies F011. 2 1% 106 PHED Physical Education F037. 1 0% 44 MUS Music F002D 2 1% 107 PHED Physical Education F045. 1 0% 46 PHED Physical Education F045. 1 0% 46 PHED Physical Education F045. 1 0% 46 PHED Physical Education F045. 1 0% 47 PHED Physical Education F042. 2 1% 109 PHED Physical Education F049A 1 0% 48 PHED Physical Education F045A 2 1% 110 PHIL Philosophy F001. 1 0% 48 PHED Physical Education F045A 2 1% 111 PHIL Philosophy F004. 1 0% 48 PSVC Psychology F014. 2 1% 111 PHIL Philosophy F008. 1 0% 50 PSYC Psychology F014. 2 1% 113 PHOT Photography F008. 1 0% 50 PSYC Psychology F014. 2 1% 113 PHOT Photography F008. 1 0% 50 PSYC Psychology F004. 1 0% 116 PSYC Psychology F010. 1 0% 54 ART Art F002 1 0% 116 PSYC Psychology F010. 1 0% 55 ATHL Athletics F004F 1 0% 118 PSYC Psychology F011. 1 0% 58 ATHL Athletics F004F 1 0% 121 SOC Sociology F015. 1 0% 59 BIOL Business F011. 1 0% 122 SPAN Spanish F001. 1 0% 123 SPAN Spanish F002. 1 0% 124 VART Video Arts F005. 1 0% 126 CHLD Child Development F001. 1 0% 125 WMN Women's Studies F005. 1 0% 125 WMN	37	ENGL	English	F209.	2	1%	100	PHED	Physical Education	F022.	1	0%
40 ESLL Engl as Second Lang F237. 2 1% 103 PHED Physical Education F029. 1 0% 41 HLTH Health F055. 2 1% 104 PHED Physical Education F036A 1 0% 42 JAPN Japanese F001. 2 1% 105 PHED Physical Education F037. 1 0% 43 MDIA Media Studies F011. 2 1% 107 PHED Physical Education F038B 1 0% 44 MUS Music F002D 2 1% 107 PHED Physical Education F045. 1 0% 45 PHED Physical Education F021A 2 1% 108 PHED Physical Education F045. 1 0% 47 PHED Physical Education F042. 2 1% 110 PHIL Philosophy F001. 1 0% 48 PHED Physical Education F045A 2 1% 111 PHIL Philosophy F004. 1	38	ESLL	Engl as Second Lang	F226.	2	1%	101	PHED	Physical Education	F022B	1	0%
41 HLTH Health F055. 2 1% 104 PHED Physical Education F036A 1 0% 42 JAPN Japanese F001. 2 1% 105 PHED Physical Education F037. 1 0% 43 MDIA Media Studies F011. 2 1% 106 PHED Physical Education F038B 1 0% 44 MUS Music F002D 2 1% 107 PHED Physical Education F045. 1 0% 45 PHED Physical Education F021A 2 1% 109 PHED Physical Education F045. 1 0% 46 PHED Physical Education F022C 2 1% 109 PHED Physical Education F045C 1 0% 47 PHED Physical Education F042. 2 1% 110 PHIL Philosophy F001. 1 0% 48 PHED Physical Education F045A 2 1% 110 PHIL Philosophy F001. 1 0% 49 PSYC Psychology F004. 2 1% <td< td=""><td>39</td><td>ESLL</td><td>Engl as Second Lang</td><td>F236.</td><td>2</td><td>1%</td><td>102</td><td>PHED</td><td>Physical Education</td><td>F023B</td><td>1</td><td>0%</td></td<>	39	ESLL	Engl as Second Lang	F236.	2	1%	102	PHED	Physical Education	F023B	1	0%
42 JAPN Japanese F001. 2 1% 105 PHED Physical Education F037. 1 0% 43 MDIA Media Studies F011. 2 1% 106 PHED Physical Education F038B 1 0% 44 MUS Music F002D 2 1% 107 PHED Physical Education F045. 1 0% 45 PHED Physical Education F045. 1 0% 108 PHED Physical Education F045. 1 0% 46 PHED Physical Education F042. 2 1% 109 PHED Physical Education F049A 1 0% 47 PHED Physical Education F042. 2 1% 110 PHIL Philosophy F001. 1 0% 48 PHED Physical Education F042. 2 1% 110 PHIL Philosophy F001. 1 0% 49 PSYC Psychology F004. 2 1% 112	40	ESLL	Engl as Second Lang	F237.	2	1%	103	PHED	Physical Education	F029.	1	0%
43 MDIA Media Studies F011. 2 1% 106 PHED Physical Education F038B 1 0% 44 MUS Music F002D 2 1% 107 PHED Physical Education F045. 1 0% 45 PHED Physical Education F02LA 2 1% 108 PHED Physical Education F045C 1 0% 47 PHED Physical Education F022C 2 1% 109 PHED Physical Education F049A 1 0% 47 PHED Physical Education F042. 2 1% 110 PHIL Philosophy F001. 1 0% 48 PHED Physical Education F045A 2 1% 111 PHIL Philosophy F001. 1 0% 49 PSVC Psychology F004. 2 1% 112 PHIL Philosophy F008. 1 0% 50 PSVC Psychology F014. 2 1% 113 PHIL Philosophy F008. 1 0	41	HLTH	Health	F055.	2	1%	104	PHED	Physical Education	F036A	1	0%
44 MUS Music F002D 2 1% 107 PHED Physical Education F045. 1 0% 45 PHED Physical Education F021A 2 1% 108 PHED Physical Education F045C 1 0% 46 PHED Physical Education F022C 2 1% 109 PHED Physical Education F049A 1 0% 47 PHED Physical Education F042A 2 1% 110 PHIL Philosophy F001. 1 0% 49 PSYC Psychology F004. 2 1% 111 PHIL Philosophy F004. 1 0% 50 PSYC Psychology F014. 2 1% 113 PHOT Photography F008. 1 0% 51 SOSC Social Science F079. 2 1% 114 PHOT Photography F008. 1 0%	42	JAPN	Japanese	F001.	2	1%	105	PHED	Physical Education	F037.	1	0%
45 PHED Physical Education F021A 2 1% 108 PHED Physical Education F045C 1 0% 46 PHED Physical Education F022C 2 1% 109 PHED Physical Education F049A 1 0% 47 PHED Physical Education F042. 2 1% 110 PHIL Philosophy F001. 1 0% 48 PHED Physical Education F045A 2 1% 111 PHIL Philosophy F001. 1 0% 48 PHED Physical Education F045A 2 1% 111 PHIL Philosophy F001. 1 0% 48 PHED Physical Education F042. 2 1% 111 PHIL Philosophy F001. 1 0% 50 PSYC Psychology F004. 2 1% 111 PHIL Philosophy F008. 1 0% 51 SOSC Social Science F079. 2 1% 114 PHOT Photography F008. 1	43	MDIA	Media Studies	F011.	2	1%	106	PHED	Physical Education	F038B	1	0%
46 PHED Physical Education F022C 2 1% 109 PHED Physical Education F049A 1 0% 47 PHED Physical Education F042. 2 1% 110 PHIL Philosophy F001. 1 0% 48 PHED Physical Education F045A 2 1% 111 PHIL Philosophy F004. 1 0% 49 PSYC Psychology F004. 2 1% 112 PHIL Philosophy F004. 1 0% 50 PSYC Psychology F014. 2 1% 113 PHOT Photography F008. 1 0% 51 SOSC Social Science F079. 2 1% 113 PHOT Photography F008. 1 0% 52 ALLD Adapt Learn: Learn Disab F210. 1 0% 115 POUI Political Science F002. 1 0% <td>44</td> <td>MUS</td> <td>Music</td> <td>F002D</td> <td>2</td> <td>1%</td> <td>107</td> <td>PHED</td> <td>Physical Education</td> <td>F045.</td> <td>1</td> <td>0%</td>	44	MUS	Music	F002D	2	1%	107	PHED	Physical Education	F045.	1	0%
47 PHED Physical Education F042. 2 1% 110 PHIL Philosophy F001. 1 0% 48 PHED Physical Education F045A 2 1% 111 PHIL Philosophy F004. 1 0% 49 PSYC Psychology F004. 2 1% 112 PHIL Philosophy F008. 1 0% 50 PSYC Psychology F014. 2 1% 113 PHOT Photography F008. 1 0% 51 SOSC Social Science F079. 2 1% 114 PHOT Photography F008. 1 0% 52 ALLD Adapt Learn: Learn Disab F210. 1 0% 115 POLI Political Science F002. 1 0% 53 ANTH Anthropology F002A 1 0% 116 PSYC Psychology F010. 1 0% 54 ART Art F002J 1 0% 117 PSYC Psychology F049. 1 0% <tr< td=""><td></td><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td>Physical Education</td><td>F045C</td><td>1</td><td>0%</td></tr<>			•						Physical Education	F045C	1	0%
48 PHED Physical Education F045A 2 1% 111 PHIL Philosophy F004. 1 0% 49 PSYC Psychology F004. 2 1% 112 PHIL Philosophy F008. 1 0% 50 PSYC Psychology F014. 2 1% 113 PHOT Photography F008. 1 0% 51 SOSC Social Science F079. 2 1% 114 PHOT Photography F008. 1 0% 52 ALLD Adapt Learn: Learn Disab F210. 1 0% 115 POLI Poll icial Science F002. 1 0% 53 ANTH Anthropology F002A 1 0% 115 PSYC Psychology F010. 1 0% 54 ART Art F002J 1 0% 117 PSYC Psychology F02. 1 0% 55 ATHL Athletics F004. 1 0% 119 PSYC Psychology F049. 1 0%			•	F022C	2	1%			Physical Education	F049A	1	0%
49 PSYC Psychology F004. 2 1% 112 PHIL Philosophy F008. 1 0% 50 PSYC Psychology F014. 2 1% 113 PHOT Photography F008. 1 0% 51 SOSC Social Science F079. 2 1% 114 PHOT Photography F008. 1 0% 52 ALLD Adapt Learn: Learn Disab F210. 1 0% 115 POLI Political Science F002. 1 0% 53 ANTH Anthropology F002A 1 0% 116 PSYC Psychology F010. 1 0% 54 ART Art F002J 1 0% 117 PSYC Psychology F022. 1 0% 55 ATHL Athletics F004. 1 0% 118 PSYC Psychology F010. 1 0% 56 ATHL Athletics F004A 1 0% 120 SOC Sociology F010. 1 0% 58 ATHL Athletics F004F 1 0% 121 SOC Sociology F015.<			•	F042.		1%	110		Philosophy	F001.	1	0%
50 PSYC Psychology F014. 2 1% 113 PHOT Photography F008. 1 0% 51 SOSC Social Science F079. 2 1% 114 PHOT Photography F008H 1 0% 52 ALLD Adapt Learn: Learn Disab F210. 1 0% 115 POLI Political Science F002. 1 0% 53 ANTH Anthropology F002A 1 0% 116 PSYC Psychology F010. 1 0% 54 ART Art F002J 1 0% 117 PSYC Psychology F022. 1 0% 55 ATHL Athletics F004. 1 0% 118 PSYC Psychology F049. 1 0% 56 ATHL Athletics F004A 1 0% 120 SOC Sociology F010. 1 0% 57 ATHL Athletics F004B 1 0% 120 SOC Sociology F011. 1 0% 58 ATHL </td <td></td> <td></td> <td>Physical Education</td> <td>F045A</td> <td></td> <td>1%</td> <td>111</td> <td></td> <td>Philosophy</td> <td>F004.</td> <td>1</td> <td>0%</td>			Physical Education	F045A		1%	111		Philosophy	F004.	1	0%
51 SOSC Social Science F079. 2 1% 114 PHOT Photography F008H 1 0% 52 ALLD Adapt Learn: Learn Disab F210. 1 0% 115 POLI Pollitical Science F002. 1 0% 53 ANTH Anthropology F002A 1 0% 116 PSVC Psychology F010. 1 0% 54 ART Art F002J 1 0% 118 PSVC Psychology F022. 1 0% 55 ATHL Athletics F004. 1 0% 118 PSVC Psychology F049. 1 0% 56 ATHL Athletics F004A 1 0% 119 SOC Sociology F010. 1 0% 57 ATHL Athletics F004B 1 0% 120 SOC Sociology F011. 1 0% 58 ATHL Athletics F004F 1 0% 121 SOC Sociology F015. 1 0% 59 BIOL											1	
52 ALLD Adapt Learn: Learn Disab F210. 1 0% 115 POLI Political Science F002. 1 0% 53 ANTH Anthropology F002A 1 0% 116 PSYC Psychology F010. 1 0% 54 ART Art F002J 1 0% 117 PSYC Psychology F022. 1 0% 55 ATHL Athletics F004. 1 0% 118 PSYC Psychology F049. 1 0% 56 ATHL Athletics F004A 1 0% 119 SOC Sociology F010. 1 0% 57 ATHL Athletics F004B 1 0% 120 SOC Sociology F011. 1 0% 58 ATHL Athletics F004F 1 0% 121 SOC Sociology F015. 1 0% 59 BIOL Biology F001D 1 0% 122 SPAN Spanish F001.			Psychology			1%			Photography		1	
53 ANTH Anthropology F002A 1 0% 116 PSYC Psychology F010. 1 0% 54 ART Art F002J 1 0% 117 PSYC Psychology F022. 1 0% 55 ATHL Athletics F004. 1 0% 118 PSYC Psychology F049. 1 0% 56 ATHL Athletics F004B 1 0% 120 SOC Sociology F010. 1 0% 57 ATHL Athletics F004B 1 0% 120 SOC Sociology F011. 1 0% 58 ATHL Athletics F004F 1 0% 121 SOC Sociology F011. 1 0% 59 BIOL Biology F001D 1 0% 122 SPAN Spanish F001. 1 0% 60 BUSI Business F011. 1 0% 123 SPAN Spanish F002. 1 <td< td=""><td></td><td></td><td>Social Science</td><td>F079.</td><td>2</td><td>1%</td><td></td><td></td><td>Photography</td><td>F008H</td><td>1</td><td>0%</td></td<>			Social Science	F079.	2	1%			Photography	F008H	1	0%
54 ART Art F002J 1 0% 117 PSYC Psychology F022. 1 0% 55 ATHL Athletics F004. 1 0% 118 PSYC Psychology F049. 1 0% 56 ATHL Athletics F004A 1 0% 119 SOC Sociology F010. 1 0% 57 ATHL Athletics F004B 1 0% 120 SOC Sociology F011. 1 0% 58 ATHL Athletics F004F 1 0% 121 SOC Sociology F015. 1 0% 59 BIOL Biology F001D 1 0% 122 SPAN Spanish F001. 1 0% 60 BUSI Business F011. 1 0% 123 SPAN Spanish F002. 1 0% 61 CHIN Chinese-Mandarin F014B 1 0% 124 VART Video Arts F001. 1 0% 62 CHLD Child Development F001. 1 0% 125 WMN Women's Studies F005. 1			Adapt Learn: Learn Disab	F210.	1	0%	115	POLI	Political Science	F002.	1	0%
55 ATHL Athletics F004. 1 0% 118 PSYC Psychology F049. 1 0% 56 ATHL Athletics F004A 1 0% 119 SOC Sociology F010. 1 0% 57 ATHL Athletics F004B 1 0% 120 SOC Sociology F011. 1 0% 58 ATHL Athletics F004F 1 0% 121 SOC Sociology F015. 1 0% 59 BIOL Biology F001D 1 0% 122 SPAN Spanish F001. 1 0% 60 BUSI Business F011. 1 0% 123 SPAN Spanish F002. 1 0% 61 CHIN Chinese-Mandarin F014B 1 0% 124 VART Video Arts F001. 1 0% 62 CHLD Child Development F001. 1 0% 125 WMN Women's Studies F005.	53	ANTH	Anthropology	F002A	1	0%	116	PSYC	Psychology	F010.	1	0%
56 ATHL Athletics F004A 1 0% 119 SOC Sociology F010. 1 0% 57 ATHL Athletics F004B 1 0% 120 SOC Sociology F011. 1 0% 58 ATHL Athletics F004F 1 0% 121 SOC Sociology F015. 1 0% 59 BIOL Biology F001D 1 0% 122 SPAN Spanish F001. 1 0% 60 BUSI Business F011. 1 0% 123 SPAN Spanish F002. 1 0% 61 CHIN Chinese-Mandarin F014B 1 0% 124 VART Video Arts F001. 1 0% 62 CHLD Child Development F001. 1 0% 125 WMN Women's Studies F005. 1 0%												
57 ATHL Athletics F004B 1 0% 120 SOC Sociology F011. 1 0% 58 ATHL Athletics F004F 1 0% 121 SOC Sociology F015. 1 0% 59 BIOL Biology F001D 1 0% 122 SPAN Spanish F001. 1 0% 60 BUSI Business F011. 1 0% 123 SPAN Spanish F002. 1 0% 61 CHIN Chinese-Mandarin F014B 1 0% 124 VART Video Arts F001. 1 0% 62 CHLD Child Development F001. 1 0% 125 WMN Women's Studies F005. 1 0%						0%				F049.	1	0%
58 ATHL Athletics F004F 1 0% 121 SOC Sociology F015. 1 0% 59 BIOL Biology F001D 1 0% 122 SPAN Spanish F001. 1 0% 60 BUSI Business F011. 1 0% 123 SPAN Spanish F002. 1 0% 61 CHIN Chinese-Mandarin F014B 1 0% 124 VART Video Arts F001. 1 0% 62 CHLD Child Development F001. 1 0% 125 WMN Women's Studies F005. 1 0%					1	0%			0,		1	
59 BIOL Biology F001D 1 0% 122 SPAN Spanish F001. 1 0% 60 BUSI Business F011. 1 0% 123 SPAN Spanish F002. 1 0% 61 CHIN Chinese-Mandarin F014B 1 0% 124 VART Video Arts F001. 1 0% 62 CHLD Child Development F001. 1 0% 125 WMN Women's Studies F005. 1 0%	57	ATHL		F004B	1	0%	120	SOC	Sociology	F011.	1	0%
60 BUSI Business F011. 1 0% 123 SPAN Spanish F002. 1 0% 61 CHIN Chinese-Mandarin F014B 1 0% 124 VART Video Arts F001. 1 0% 62 CHLD Child Development F001. 1 0% 125 WMN Women's Studies F005. 1 0%	58	ATHL	Athletics	F004F	1	0%	121	SOC	Sociology	F015.	1	0%
61 CHIN Chinese-Mandarin F014B 1 0% 124 VART Video Arts F001. 1 0% 62 CHLD Child Development F001. 1 0% 125 WMN Women's Studies F005. 1 0%			Biology	F001D	1	0%			Spanish	F001.	1	0%
62 CHLD Child Development F001. 1 0% 125 WMN Women's Studies F005. 1 0%	60	BUSI	Business	F011.	1	0%	123	SPAN	Spanish	F002.	1	0%
						0%					1	0%
63 CHLD Child Development F011. 1 0% Total 292 100%			•		1		125		Women's Studies	F005.		
	63	CHLD	Child Development	F011.	1	0%		Total			292	100%

III. Additional Degree/Certificate Earned

• Of the 24 General Science degree recipients, 8 obtained another degree and/or certificate in 2015-16. Most of the additional awards were for an AA-T (4) or AS (3) degree.

Table 3: Additional Degree and Certificate Obtained by 2015-16 General Science Degree Recipients

	Headcount				
Associate					
1COS	1COS Communication Studies				
1GSS	1GSS General Studies: Social Science				
Subtot	al	2			
Associate	in Arts-Transfer				
1CMT	Comm Studies for Transfer	2			
1PYT	1PYT Psychology for Transfer				
Subtot	al	4			
Associate					
1BIO	1BIO Biological Sciences				
1CHE	1CHE Chemistry				
Subtot	al	3			
Certificat					
1IDC	CSU General Education-Breadth	2			
Subtot	2				
Total	11				

IV. Enrolled in a Fall 2016 Course

Five of the 24 General Science degree recipients enrolled in a course at Foothill and/or De Anza during fall 2016 term. Based on enrollment, it appears that 2 students are in the Respiratory Therapy program.

Table 4: 2015-16 General Science Degree Recipients who Enrolled in a Fall 2016 Course

		Enrollment		
Foothill Co				
AHS	AHS F050A			
BIOL	F012.	1		
MATH	F010.	1		
NCBS	F405.	1		
NCLA	F406A	1		
NCLA	F406B	1		
PSYC	F040.	1		
RSPT	F050A	2		
RSPT	F051A	2		
RSPT	RSPT F052.			
RSPT	RSPT F054.			
RSPT	F055A	2		
Subtota	l	18		
De Anza Co				
BIOL	D026.	1		
Subtota	Subtotal			
Total	19			

V. Declared General Studies: Science Major

• Of the students who enrolled during fall 2016 at Foothill, 243 have declared General Studies: Science as their major.

retrieved 1/10/2017 Appendix



Contact Us Campus Directory Site Index

Find it Fast!
Search

CURRENT STUDENTS

PROSPECTIVE STUDENTS

INTERNATIONAL STUDENTS

FACULTY & STAFF

COMMUNITY

ALUMNI & DONORS

DEGREES, CERTIFICATES & TRANSFER PROGRAMS



Physical Sciences, Mathematics & Engineering Division

www.foothill.edu/psme

(650) 949-7259

General Studies - Science

(2015-2016)

Because of the increasingly technological nature of our society, science majors will find an impressive array of options and exciting opportunities. A science major can provide preparation for a career in fields related to biology, chemistry, mathematics, physics, astronomy or engineering.

Program Learning Outcomes

- Students will be able to integrate the various fields of science in order to critically evaluate and interpret scientific information.
- Students will be able to assess how relevant scientific information could be used to inform their own personal economic, political and social decisions.

Career Opportunities

There is a need for scientifically trained people in non-traditional areas such as marketing and sales, scientific information, patent law, and health and safety.

Units required for Major: 40

Degree Requirements:

- English proficiency: ENGL 1A, 1AH, 1S & 1T, ESLL 26 or equivalent.
- Mathematics proficiency: MATH 57, 105, 108 or equivalent.

A minimum of 90 units is required* to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (40 units)

*Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

NOTE: All courses pertaining to the major must be taken for a letter grade. In addition, a GPA of 2.0 or higher is required in all core and support courses for the degree or certificates.

Program Type(s):

AS = Associate in Science Degree.

Additional Information:

NOTE: Courses used to meet the major requirements MAY be used to satisfy any graduation general education requirement.

Core Courses: (40 units)

Select 40 units to represent all FIVE categories listed below.

Biology (20 units)

At least one course each from Area A and Area B. At least one course in this area must include a laboratory.

Area A:

BIOL 1C* Evolution, Systematics & Ecology (6 units)

BIOL 9 Environmental Biology (may be taken with BIOL 9L to satisfy laboratory requirement) (4 units)

BIOL 9L Environmental Biology Laboratory (only if taken with BIOL 9) (1 unit)

BIOL 10* General Biology: Basic Principles (5 units)

BIOL 14* Human Biology (5 units)

*Course includes a laboratory component.

Area B:

BIOL 1A* Principles of Cell Biology (6 units)

BIOL 1B* Form & Function in Plants & Animals (6 units)

BIOL 8 Basic Nutrition (5 units)

BIOL 12 Human Genetics (4 units)

BIOL 13* Marine Biology (5 units)

BIOL 23 Introduction to Biotechnology (5 units)

BIOL 40A* Human Anatomy & Physiology I (5 units)

BIOL 40B* Human Anatomy & Physiology II (5 units)

BIOL 40C* Human Anatomy & Physiology III (5 units)

BIOL 41* Microbiology (6 units)

BIOL 45 Introduction to Human Nutrition (4 units)

*Course includes a laboratory component.

Chemistry (5 units)

CHEM 1A General Chemistry (5 units)

CHEM 1B General Chemistry (5 units)

CHEM 1C General Chemistry & Qualitative Analysis (5 units)

CHEM 9 Chemistry of Cooking (5 units)

CHEM 12A Organic Chemistry (6 units)

CHEM 12B Organic Chemistry (6 units)

CHEM 12C Organic Chemistry (6 units)

CHEM 20 I Matter: Introduction to Green Technology & the Environment (5 units)

CHEM 25 Fundamentals of Chemistry (5 units)

CHEM 30A Survey of Inorganic & Organic Chemistry (5 units)

CHEM 30B Survey of Organic & Biochemistry (5 units)

Engineering/Computer Science/Astronomy/PSE (5 units)

ASTR 10A General Astronomy: Solar System (5 units)

ASTR 10B General Astronomy: Star, Galaxies, Cosmology (5 units)

or ASTR 10BH Honors General Astronomy: Stars, Galaxies, Cosmology (5 units)

ASTR 10L Astronomy Laboratory (1 unit)

ASTR 54H Honors Institute Seminar in Astronomy (1 unit)

ASTR 77 Seminar on Exciting Topics in Astronomy (1 unit)

C S 1A Object-Oriented Programming Methodologies in Java (5 units)

or C S 1AH Honors Object-Oriented Programming Methodologies in Java (5 units)

C S 1B Intermediate Software Design in Java (5 units)

C S 1C Advanced Data Structures & Algorithms in Java (5 units)

C S 2A Object-Oriented Programming Methodologies in C++ (5 units)

or C S 2AH Honors Object-Oriented Programming Methodologies in C++ (5 units)

C S 2B Intermediate Software Design in C++ (5 units)

C S 2C Advanced Data Structures & Algorithms in C++ (5 units)

C S 3A Object-Oriented Programming Methodologies in Python (5 units)

C S 10 Computer Architecture & Organization (5 units)

C S 21B Intermediate Python Programming (5 units)

C S 49 Foundations of Computer Programming (2.5 units)

C S 85A Ruby & Functional Programming (5 units)

ENGR 6 Engineering Graphics (4 units)

ENGR 10 Introduction to Engineering (5 units)

ENGR 11 Programming & Problem Solving in MATLAB (5 units)

ENGR 25 Introduction to Fresh Water (5 units)

ENGR 28 Introduction to Bioengineering (4 units)

or BIOL 28 Introduction to Bioengineering (4 units)

ENGR 35 Statics (5 units)

ENGR 37 Introduction to Circuit Analysis (5 units)

ENGR 39 Energy, Society & the Environment (5 units)

ENGR 40 Introduction to Clean Energy Technology (5 units)

ENGR 45 Properties of Materials (5 units)

ENGR 49 Engineering Profession (1 unit)

ENGR 62A Introduction to 3D Printing & Rapid Prototype Design (4 units)

ENGR 62B 3D Printing: Basic Model Making (5 units)

ENGR 62C 3D Printing: Advanced Model Making (5 units)

ENGR 62D 3D Rapid Model Making & Prototype Development (5 units)

ENGR 81 Electric Power Systems (5 units)

ENGR 82 Photo Voltaic & Solar Cell Design (5 units)

ENGR 83 Smart Energy Systems (5 units)

ENGR 83A Introduction to Biomedical Engineering (5 units)

ENGR 83B Design & Manufacturing in the Biomedical Engineering Field (5 units)

ENGR 83C Introduction to Medical Device Regulations (5 units)

ENGR 83E Introduction to Documentation (5 units)

ENGR 102 Building Science & Performance Engineering (5 units)

PSE 51 Frontiers in Science (1 unit)

Mathematics (5 units)

MATH 1A Calculus (5 units)

or MATH 1AH Honors Calculus I (5 units)

MATH 1AHP Honors Calculus I Seminar (1 unit)

MATH 1B Calculus (5 units)

MATH 1C Calculus (5 units)

MATH 1D Calculus (5 units)

MATH 2A Differential Equations (5 units)

MATH 2B Linear Algebra (5 units)

MATH 10 Elementary Statistics (5 units)

MATH 11 Finite Mathematics (5 units)

MATH 12 Calculus for Business & Economics (5 units)

MATH 22 Discrete Mathematics (5 units)

or C S 18 Discrete Mathematics (5 units)

MATH 42 Math for Elementary School Teachers (5 units)

MATH 44 Math for the Liberal Arts (5 units)

MATH 48A Precalculus I (5 units)

MATH 48B Precalculus II (5 units)

MATH 48C Precalculus III (5 units)

MATH 54H Honors Institute Seminar in Mathematics (1 unit)

Physics (5 units)

PHYS 2A General Physics (5 units)

PHYS 2AM General Physics - Calculus Supplement (1 unit)

PHYS 2B General Physics (5 units)

PHYS 2BM General Physics - Calculus Supplement (1 unit)

PHYS 2C General Physics (5 units)

PHYS 2CM General Physics - Calculus Supplement (1 unit)

PHYS 4A General Physics (Calculus) (6 units)

PHYS 4B General Physics (Calculus) (6 units)

PHYS 4C General Physics (Calculus) (6 units)

PHYS 4D General Physics (Calculus) (6 units)

PHYS 6 Introductory Physics (5 units)

PHYS 12 Introduction to Modern Physics (5 units)

PHYS 54H Honors Institute Seminar in Physics (1 unit)

Academic Year: 2015-2016

Current status: Approved Last update: 2015-04-02 09:16:32

View another Program.

ABOUT FOOTHILL ADMISSIONS ACADEMICS STUDENT SERVICES CAMPUS LIFE

© Foothill College 12345 El Monte Road • Los Altos Hills • CA 94022 Established in 1957 Accreditation Privacy Policy