

# Biology Education Report

CIP 26.0101

Cochise, Pima, SC

## Biology/Biological Sciences, General

CIP 2010: A general program of biology at the introductory, basic level or a program in biology or the biological sciences that is undifferentiated as to title or content. Includes instruction in general biology and programs covering a variety of biological specializations. \* *Program Description - Settings*

## Target Occupations

<b>382</b> Jobs (2016) 27% above National average	<b>3.4%</b> % Change (2017-2022) Nation: 3.6%	<b>\$43.30/hr</b> Median Hourly Earnings Nation: \$49.43/hr
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Occupation	2017 Jobs	Annual Openings	Median Hourly Earnings	Growth (2017 - 2022)	Location Quotient (2017)
Natural Sciences Managers	205	6	\$52.29/hr	4.88%	1.20
Biological Scientists, All Other	160	5	\$33.88/hr	1.88%	1.54
Life Scientists, All Other	20	1	\$28.30/hr	5.00%	0.71

\* *Target Occupations - Settings*

## Occupational Programs




41.00	1,128.00	13.00				
Programs (2015)	Completions (2015)	Openings (2015)				
CIP Code	Program	Completions (2011)	Completions (2012)	Completions (2013)	Completions (2014)	Completions (2015)
26.0406	Cell/Cellular and Molecular Biology	159	155	169	171	162
30.1901	Nutrition Sciences	104	117	111	121	119
27.0101	Mathematics, General	115	118	125	108	126
40.0807	Optics/Optical Sciences	108	100	100	87	99
26.0502	Microbiology, General	74	72	53	80	76
26.0101	Biology/Biological Sciences, General	71	71	85	73	89
40.0501	Chemistry, General	80	67	91	69	66
40.0601	Geology/Earth Science, General	37	43	49	50	48
26.0202	Biochemistry	14	24	51	47	65
26.1310	Ecology and Evolutionary Biology	47	44	53	47	48
26.1501	Neuroscience	6	9	24	42	72
40.0801	Physics, General	43	49	46	35	39
27.0301	Applied Mathematics, General	9	13	11	21	10
40.0201	Astronomy	21	16	18	18	19
26.1201	Biotechnology	2	1	6	14	15
40.0605	Hydrology and Water Resources Science	12	19	23	14	16
27.0501	Statistics, General	3	9	12	8	10
26.1001	Pharmacology	5	10	8	7	12
40.0404	Meteorology	0	2	3	4	3
40.0401	Atmospheric Sciences and Meteorology, General	8	4	12	4	10
26.0702	Entomology	3	5	5	4	6
26.0801	Genetics, General	3	2	4	3	1
40.0203	Planetary Astronomy and Science	3	4	4	2	7
26.0599	Microbiological Sciences and Immunology, Other	3	3	5	2	1
30.1801	Natural Sciences	0	0	1	1	0
26.0305	Plant Pathology/Phytopathology	6	6	6	1	4
40.0699	Geological and Earth Sciences/Geosciences, Other	1	2	0	1	1
30.1701	Behavioral Sciences	8	5	10	0	0
26.1301	Ecology	0	0	0	0	0
26.0503	Medical Microbiology and Bacteriology	0	0	0	0	1
26.0508	Microbiology and Immunology	5	0	0	0	0
26.0499	Cell/Cellular Biology and Anatomical Sciences, Other	0	0	0	0	0
26.0403	Anatomy	0	0	0	0	0
26.0401	Cell/Cellular Biology and Histology	0	0	0	0	0
26.0701	Zoology/Animal Biology	0	0	0	0	0
26.0707	Animal Physiology	0	0	0	0	0
26.1401	Molecular Medicine	4	1	0	0	0
26.1102	Biostatistics	0	1	3	0	3
26.0910	Pathology/Experimental Pathology	0	0	0	0	0
26.0804	Animal Genetics	0	0	0	0	0
30.1001	Biopsychology	1	0	0	0	0

<b>Programs by Institution</b>				
<b>CIP Code</b>	<b>Title</b>	<b>Institution</b>	<b>Award Level</b>	<b>Completions (2015)</b>
26.0101	Biology/Biological Sciences, General	Tohono O'Odham Community College	Award of at least 1 but less than 2 academic years	3
26.0101	Biology/Biological Sciences, General	Cochise County Community College District	Associates degree	9
26.0101	Biology/Biological Sciences, General	Tohono O'Odham Community College	Associates degree	2
26.0101	Biology/Biological Sciences, General	Pima Community College	Associates degree	0
26.0101	Biology/Biological Sciences, General	University of Arizona	Bachelors degree	75
26.0101	Biology/Biological Sciences, General	University of Arizona	Masters degree	0
26.0202	Biochemistry	University of Arizona	Bachelors degree	61
26.0202	Biochemistry	University of Arizona	Masters degree	1
26.0202	Biochemistry	University of Arizona	Doctors degree	3
26.0305	Plant Pathology/Phytopathology	University of Arizona	Masters degree	3
26.0305	Plant Pathology/Phytopathology	University of Arizona	Doctors degree	1
26.0401	Cell/Cellular Biology and Histology	University of Arizona	Bachelors degree	0
26.0401	Cell/Cellular Biology and Histology	University of Arizona	Masters degree	0
26.0401	Cell/Cellular Biology and Histology	University of Arizona	Doctors degree	0
26.0403	Anatomy	University of Arizona	Masters degree	0
26.0403	Anatomy	University of Arizona	Doctors degree	0
26.0406	Cell/Cellular and Molecular Biology	University of Arizona	Bachelors degree	151
26.0406	Cell/Cellular and Molecular Biology	University of Arizona	Masters degree	4
26.0406	Cell/Cellular and Molecular Biology	University of Arizona	Doctors degree	7
26.0499	Cell/Cellular Biology and Anatomical Sciences, Other	University of Arizona	Masters degree	0
26.0499	Cell/Cellular Biology and Anatomical Sciences, Other	University of Arizona	Doctors degree	0
26.0502	Microbiology, General	University of Arizona	Bachelors degree	73
26.0502	Microbiology, General	University of Arizona	Masters degree	3
26.0502	Microbiology, General	University of Arizona	Doctors degree	0
26.0503	Medical Microbiology and Bacteriology	Pima Community College	Associates degree	0
26.0503	Medical Microbiology and Bacteriology	University of Arizona	Bachelors degree	0
26.0503	Medical Microbiology and Bacteriology	University of Arizona	Post baccalaureate certificate	1
26.0503	Medical Microbiology and Bacteriology	University of Arizona	Masters degree	0
26.0503	Medical Microbiology and Bacteriology	University of Arizona	Doctors degree	0

26.0508	Microbiology and Immunology	University of Arizona	Doctors degree	0
26.0599	Microbiological Sciences and Immunology, Other	University of Arizona	Masters degree	0
26.0599	Microbiological Sciences and Immunology, Other	University of Arizona	Doctors degree	1
26.0701	Zoology/Animal Biology	University of Arizona	Bachelors degree	0
26.0702	Entomology	University of Arizona	Masters degree	2
26.0702	Entomology	University of Arizona	Doctors degree	4
26.0707	Animal Physiology	University of Arizona	Bachelors degree	0
26.0707	Animal Physiology	University of Arizona	Masters degree	0
26.0707	Animal Physiology	University of Arizona	Doctors degree	0
26.0801	Genetics, General	University of Arizona	Masters degree	0
26.0801	Genetics, General	University of Arizona	Doctors degree	1
26.0804	Animal Genetics	University of Arizona	Masters degree	0
26.0804	Animal Genetics	University of Arizona	Doctors degree	0
26.0910	Pathology/Experimental Pathology	University of Arizona	Masters degree	0
26.0910	Pathology/Experimental Pathology	University of Arizona	Doctors degree	0
26.1001	Pharmacology	University of Arizona	Masters degree	4
26.1001	Pharmacology	University of Arizona	Doctors degree	8
26.1102	Biostatistics	University of Arizona	Masters degree	3
26.1201	Biotechnology	Pima Community College	Award of at least 1 but less than 2 academic years	3
26.1201	Biotechnology	University of Arizona	Masters degree	12
26.1301	Ecology	University of Arizona	Bachelors degree	0
26.1301	Ecology	University of Arizona	Masters degree	0
26.1301	Ecology	University of Arizona	Doctors degree	0
26.1310	Ecology and Evolutionary Biology	University of Arizona	Bachelors degree	35
26.1310	Ecology and Evolutionary Biology	University of Arizona	Masters degree	9
26.1310	Ecology and Evolutionary Biology	University of Arizona	Doctors degree	4
26.1401	Molecular Medicine	University of Arizona	Masters degree	0
26.1401	Molecular Medicine	University of Arizona	Doctors degree	0
26.1501	Neuroscience	University of Arizona	Bachelors degree	69
26.1501	Neuroscience	University of Arizona	Masters degree	0
26.1501	Neuroscience	University of Arizona	Doctors degree	3
27.0101	Mathematics, General	Cochise County Community College District	Associates degree	3
27.0101	Mathematics, General	University of Arizona	Bachelors degree	110
27.0101	Mathematics, General	University of Arizona-South	Bachelors degree	2
27.0101	Mathematics, General	University of Arizona	Masters degree	2
27.0101	Mathematics, General	University of Arizona	Doctors degree	9
27.0301	Applied Mathematics, General	University of Arizona	Masters degree	6
27.0301	Applied Mathematics, General	University of Arizona	Doctors degree	4
27.0501	Statistics, General	University of Arizona	Postbaccalaureate certificate	3
27.0501	Statistics, General	University of Arizona	Masters degree	5
27.0501	Statistics, General	University of Arizona	Doctors degree	2
30.1001	Biopsychology	University of Arizona	Postbaccalaureate certificate	0
30.1701	Behavioral Sciences	University of Phoenix-Southern Arizona Campus	Bachelors degree	0

30.1801	Natural Sciences	University of Arizona	Bachelors degree	0
30.1901	Nutrition Sciences	University of Arizona	Bachelors degree	116
30.1901	Nutrition Sciences	University of Arizona	Masters degree	3
30.1901	Nutrition Sciences	University of Arizona	Doctors degree	0
40.0201	Astronomy	University of Arizona	Bachelors degree	11
40.0201	Astronomy	University of Arizona	Masters degree	3
40.0201	Astronomy	University of Arizona	Doctors degree	5
40.0203	Planetary Astronomy and Science	University of Arizona	Masters degree	1
40.0203	Planetary Astronomy and Science	University of Arizona	Doctors degree	6
40.0401	Atmospheric Sciences and Meteorology, General	University of Arizona	Bachelors degree	0
40.0401	Atmospheric Sciences and Meteorology, General	University of Arizona	Masters degree	3
40.0401	Atmospheric Sciences and Meteorology, General	University of Arizona	Doctors degree	7
40.0404	Meteorology	University of Arizona	Masters degree	3
40.0404	Meteorology	University of Arizona	Doctors degree	0
40.0501	Chemistry, General	Cochise County Community College District	Associates degree	1
40.0501	Chemistry, General	University of Arizona	Bachelors degree	34
40.0501	Chemistry, General	University of Arizona	Masters degree	6
40.0501	Chemistry, General	University of Arizona	Doctors degree	25
40.0601	Geology/Earth Science, General	University of Arizona	Bachelors degree	37
40.0601	Geology/Earth Science, General	University of Arizona	Masters degree	2
40.0601	Geology/Earth Science, General	University of Arizona	Doctors degree	9
40.0605	Hydrology and Water Resources Science	University of Arizona	Bachelors degree	7
40.0605	Hydrology and Water Resources Science	University of Arizona	Masters degree	6
40.0605	Hydrology and Water Resources Science	University of Arizona	Doctors degree	3
40.0699	Geological and Earth Sciences/Geosciences, Other	University of Arizona	Masters degree	1
40.0801	Physics, General	Cochise County Community College District	Associates degree	1
40.0801	Physics, General	University of Arizona	Bachelors degree	24
40.0801	Physics, General	University of Arizona	Masters degree	6
40.0801	Physics, General	University of Arizona	Doctors degree	8
40.0807	Optics/Optical Sciences	University of Arizona	Bachelors degree	27
40.0807	Optics/Optical Sciences	University of Arizona	Postbaccalaureate certificate	5
40.0807	Optics/Optical Sciences	University of Arizona	Masters degree	37
40.0807	Optics/Optical Sciences	University of Arizona	Doctors degree	30

## Regional Completions by Award Level

	Award Level	Completions (2015)	Percent
●	Award of at least 1 but less than 2 academic years	3	3.4% 
●	Associates degree	11	12.4% 
●	Bachelors degree	75	84.3% 
	Award of less than 1 academic year	0	0.0%
	Award of at least 2 but less than 4 academic years	0	0.0%
	Postbaccalaureate certificate	0	0.0%
	Masters degree	0	0.0%
	Post-masters certificate	0	0.0%
	Doctors degree	0	0.0%

\* Regional Completions by Award Level - Settings

## Regional Completions by Institution

Institution	Certificates (2015)	Degrees (2015)	Total Completions (2015)
University of Arizona	0	75	75
Cochise County Community College District	0	9	9
Tohono O'Odham Community College	3	2	5
Pima Community College	0	0	0

\* Regional Completions by Institution - Settings

## Appendix A - Data Sources and Calculations

**Location Quotien:** Location quotient (LQ) is a way of quantifying how concentrated a particular industry, cluster, occupation, or demographic group is in a region as compared to the nation. It can reveal what makes a particular region unique in comparison to the national average.

**Occupation Data:** EMSI occupation employment data are based on final EMSI industry data and final EMSI staffing patterns. Wage estimates are based on Occupational Employment Statistics (QCEW and Non-QCEW Employees classes of worker) and the American Community Survey (Self-Employed and Extended Proprietors). Occupational wage estimates also affected by county-level EMSI earnings by industry.

**State Data Sources:** This report uses state data from the following agencies: Arizona Department of Administration, Office of Employment and Population Statistics