# ASSESSMENT DAY

College of Arts and Sciences

School of Biological and Physical Sciences

November 21, 2016

# Academic Assessment

| | LEVEL | FOCUS | CONDUCTED BY | FREQUENCY |
|---|---|---|---|---|
| **Academic Success Committee** | Program | • Quality of assessment practices | Committee of peers | Years 1 & 2 |
| **Instructional Program Review** | Program / Cluster | • Enrollment, retention, completion<br>• Industry certifications and job placement<br>• Program budget and staffing<br>• Advisory committees<br>• Curriculum changes | Committee of peers | Year 3 |
| **Assessment Day** | Course/ Program | • Enrollment by demographics<br>• Graduation and retention<br>• Average class size<br>• Course success rate<br>• Placement rate<br>• SLOs, PLOs and ILOs | Program Chair and Faculty | Years 1, 2, 3 |

# Programs

2230 - Environmental Science Technology

# Classes (1 of 2)

AST1002 Astronomy

AST2905 Directed Study in Astronomy

BCH3023 Biochemistry I

BCH3023L Biochemistry I Lab

BOT1010 General Botany

BOT1010L General Botany Lab

BOT2150 Native Plants of Central Florida

BOT3151 Flora of Central Florida

BSC1005 Survey of Biological Sciences (For Non-Science Majors)

BSC1005L Survey of Biological Science (For Non-Science Majors) Lab

BSC1010 General Biology I (For Science Majors)

BSC1010L General Biology I (For Science Majors) Lab

BSC1011 General Biology II (For Science Majors)

BSC1011L General Biology II (For Science Majors) Lab

BSC1020 Human Biology

BSC1085 Human Anatomy and Physiology I

BSC1085L Human Anatomy and Physiology I Lab

BSC1086 Human Anatomy and Physiology II

BSC1086L Human Anatomy and Physiology II Lab

BSC2905 Directed Study in Biological Sciences

BSC2930 Biological Themes in Film

CHM1025 Introduction to Chemistry

CHM1025L Introduction to Chemistry Lab

CHM1045 General College Chemistry I

CHM1045L General College Chemistry I Lab

CHM1046 General College Chemistry II

CHM1046L General College Chemistry II Lab

CHM2210 Organic Chemistry

CHM2210L Organic Chemistry Lab

CHM2211 Organic Chemistry II

CHM2211L Organic Chemistry II Lab

CHM2905Directed Study in Chemistry

CHM3085 Environmental Chemistry

CHM3120 Quantitative Analysis

CHM3120L Quantitative Analysis Lab

EVR2001 Introduction to Environmental Science

EVR2001L Introduction to Environmental Science Lab

EVR2861 Environmental Policy

EVR2933 Environmental Seminar

# Classes (2 of 2)

EVR2943 Environmental Internship

GIS2040 Geographic Information Systems

GIS2040L Geographic Information Systems Lab

GLY2010 Physical Geology

GLY2010L Physical Geology Lab

GLY2100 Historical Geology

MCB1010 Microbiology

MCB1010L Microbiology Lab

MCB2905 Directed Study in Microbiology

MET2010 Meteorology

OCB2000 Introduction to Marine Biology

OCB2000L Introduction to Marine Biology Lab

OCE1001 Introduction to Oceanography

OCE1001L Introduction to Oceanography Lab

OCE2013 Aquatic Environmental Science

OCE2013L Aquatic Environmental Science Lab

OCE3014 Oceanography: Coastal Ocean Studies in Biogeochemistry

OCE3014L Oceanography: Coastal Ocean Studies in Biogeochemistry Lab

PCB2033 Introduction to Ecology

PCB2033L Introduction to Ecology Lab

PCB2510 Human Genetics

PCB2510L Human Genetics Lab

PCB3034 General Ecology

PCB3034L General Ecology Lab

PCB3060 Introduction to Genetics

PCB3203 Cell Physiology

PHY1020 Energy and its Environmental Effects

PHY1053 General Physics I

PHY1053L General Physics I Lab

PHY1054 General Physics II

PHY1054L General Physics II Lab

PHY2048 Physics with Calculus I

PHY2048L Physics with Calculus I Lab

PHY2049 Physics with Calculus II

PHY2049L Physics with Calculus II Lab

PHY2905 Directed Study in Physics

PHY3101 Modern Physics

PHY3221 Classical Mechanics

PHY3513 Thermal Physics (Thermodynamics and Elementary Statistical Mechanics)

PHY4424 Geometrical and Physical Optics

PSC1121 Physical Science

CHM1020 Chemistry in Society

OCE2905 Directed Study in Oceanography

# Last Assessment Day – Action Items

11/23/2015:

1. Continue developing communication with the Advisor on the Go to make sure students are well guided and advised;
2. Work with Advising to make sure students are well advised in what courses to take in the department;
3. More research opportunities for students;
4. Seminars series (STEM);
5. IE: provide more W/F/FN data.

# BSC1010 - Course Learning Outcomes 2015/2016

SLO 1: Describe the basic chemical molecules of life. *(1, 2, 4)*

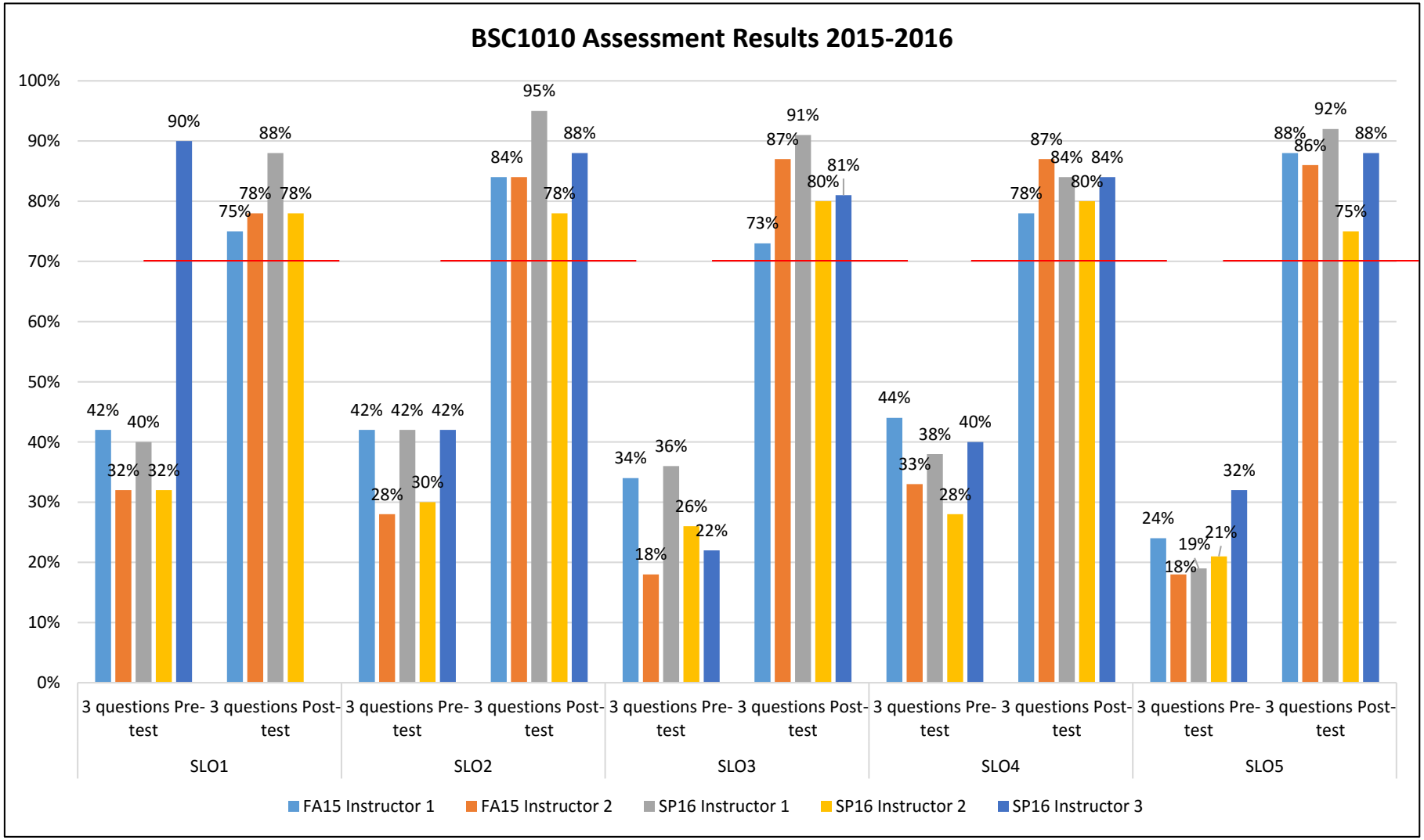
SLO 2: Distinguish between the different types of cells and identify basic cellular structures and their functions. *(1)*

SLO 3: Describe energy and ATP production during the process of cellular respiration and the conversion of light energy into the chemical bonds of sugar during photosynthesis. *(1)*

SLO 4: Describe the structure of DNA, its replication and protein synthesis. *(1)*

SLO 5: Use the principles of Mendelian Genetics to solve problems. *(1)*

# BSC1010 - Course Assessment Results 2015/2016




***2015-16 Success Rate: 73%***

# BSC1086 - Course Learning Outcomes 2015/2016

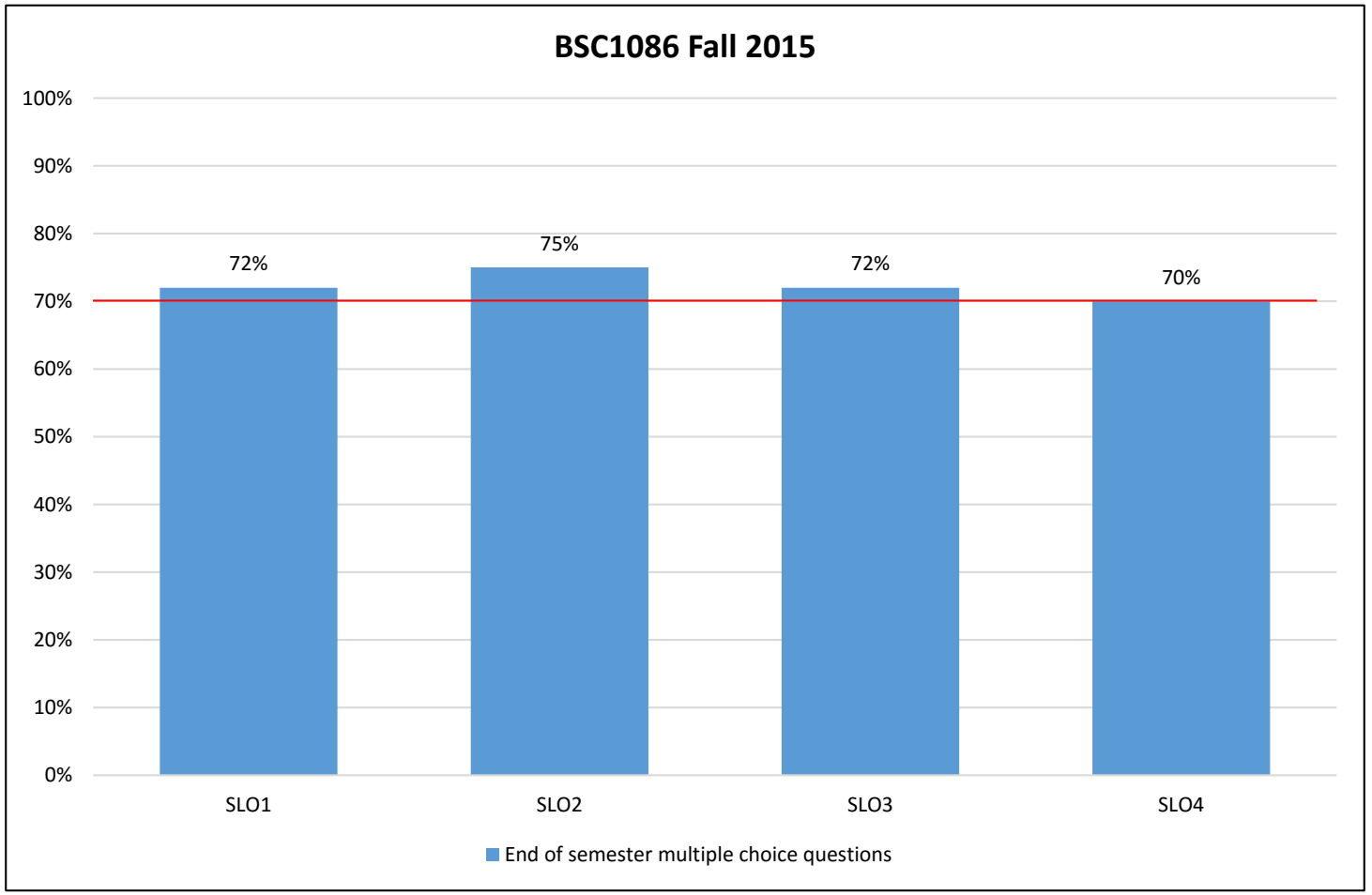
SLO 1: Identify the structures and organs of the ANS, digestive, urinary, circulatory, respiratory, endocrine and reproductive systems.

SLO 2: Explain the physiology of the above seven systems.

SLO 3: Demonstrate the homeostatic mechanisms of each system.

SLO 4: Demonstrate the interrelationships between the systems studied and how they relate to the well-being of the human organism.

# BSC1086 - Course Assessment Results 2015/2016




***2015-16 Success Rate: 81%***

# CHM1020 - Course Learning Outcomes 2015/2016

SLO 1: Demonstrate an understanding of basic chemical concepts, including classification of matter.

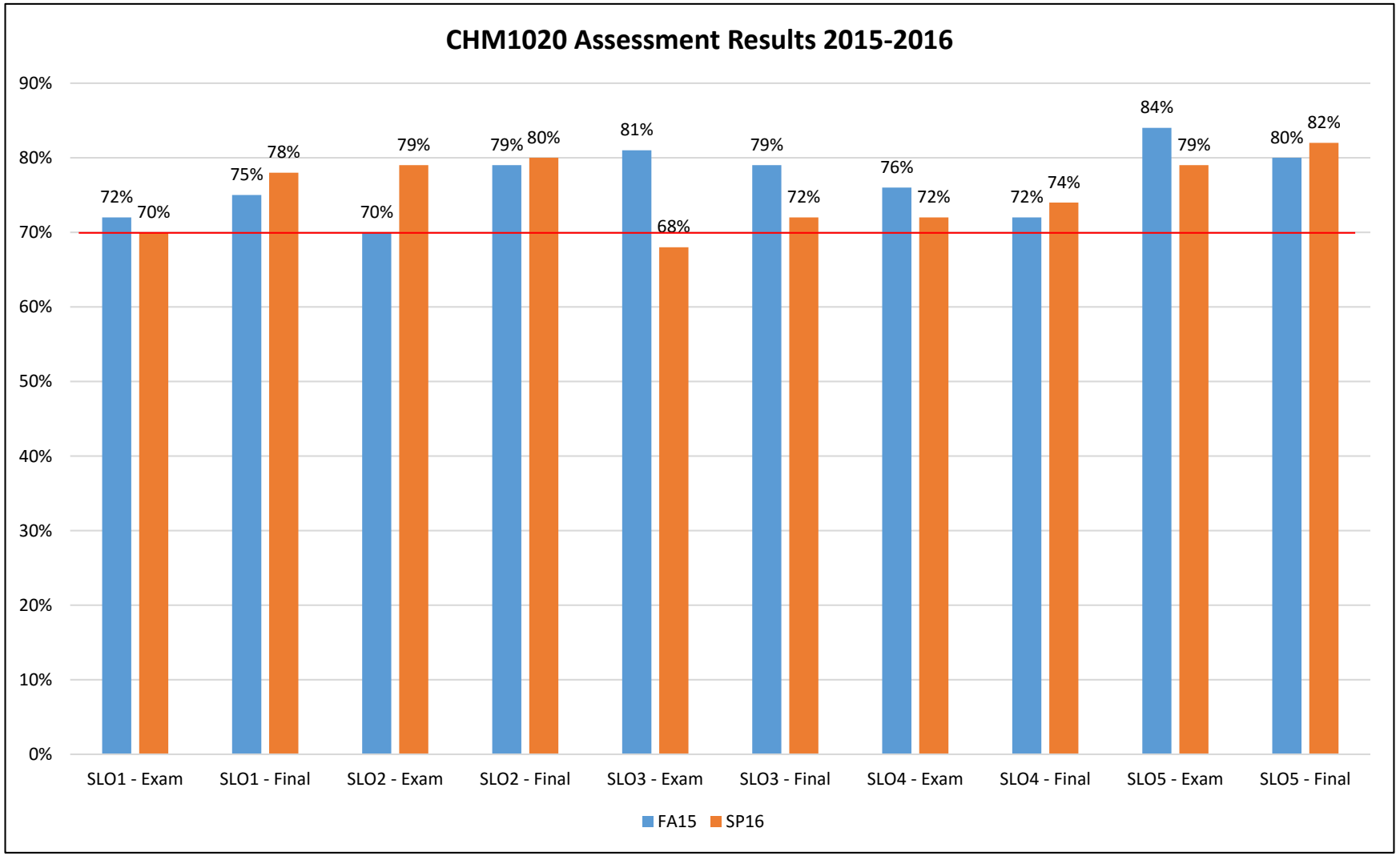
SLO 2: Gain an understanding of the vocabulary of chemistry, which permeates society on food and product labels, climate change, and in the discussion of sustainable energy.

SLO 3: Demonstrate the ability to apply chemistry-centered mathematical concepts to real world solutions.

SLO 4: Communicate scientific findings clearly and effectively using oral, written or graphic forms.

SLO5: Analyze information from multiple perspectives, including that presented in tabular or graphic format. The student will apply logical reasoning skills in this task.

# CHM1020 - Course Assessment Results 2015/2016




***2015-16 Success Rate: 87%***

# CHM1025 - Course Learning Outcomes 2015/2016

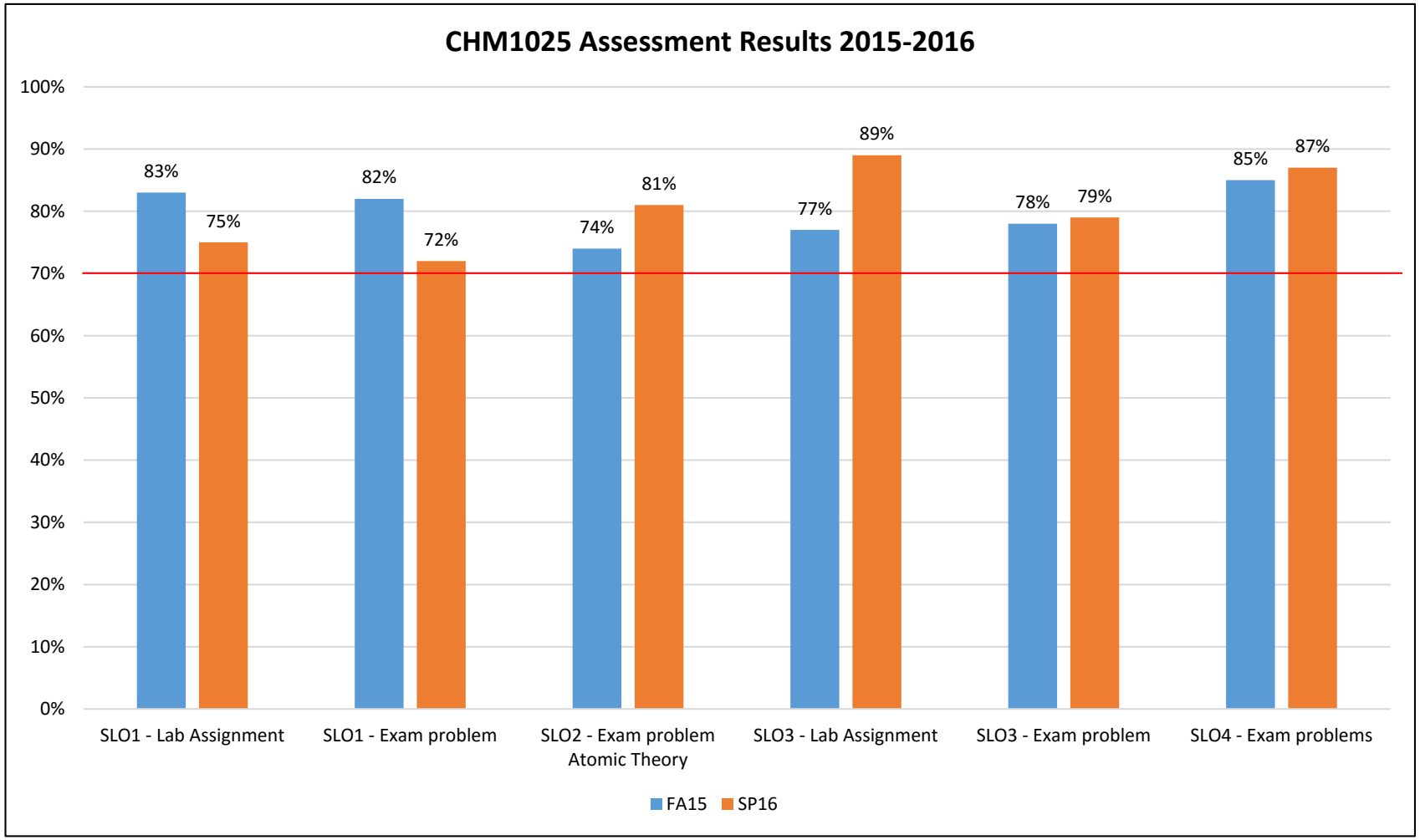
SLO 1: Demonstrate that all measured numbers contain a certain degree of error.

SLO 2: Demonstrate knowledge of the evolution of atomic structure theories.

SLO 3: Employ basic math techniques to solve common chemistry problems.

SLO 4: Demonstrate basic chemistry vocabulary.

# CHM1025 - Course Assessment Results 2015/2016




***2015-16 Success Rate: 86%***

# CHM2210 - Course Learning Outcomes 2015/2016

SLO 1: Identify the major functional groups.

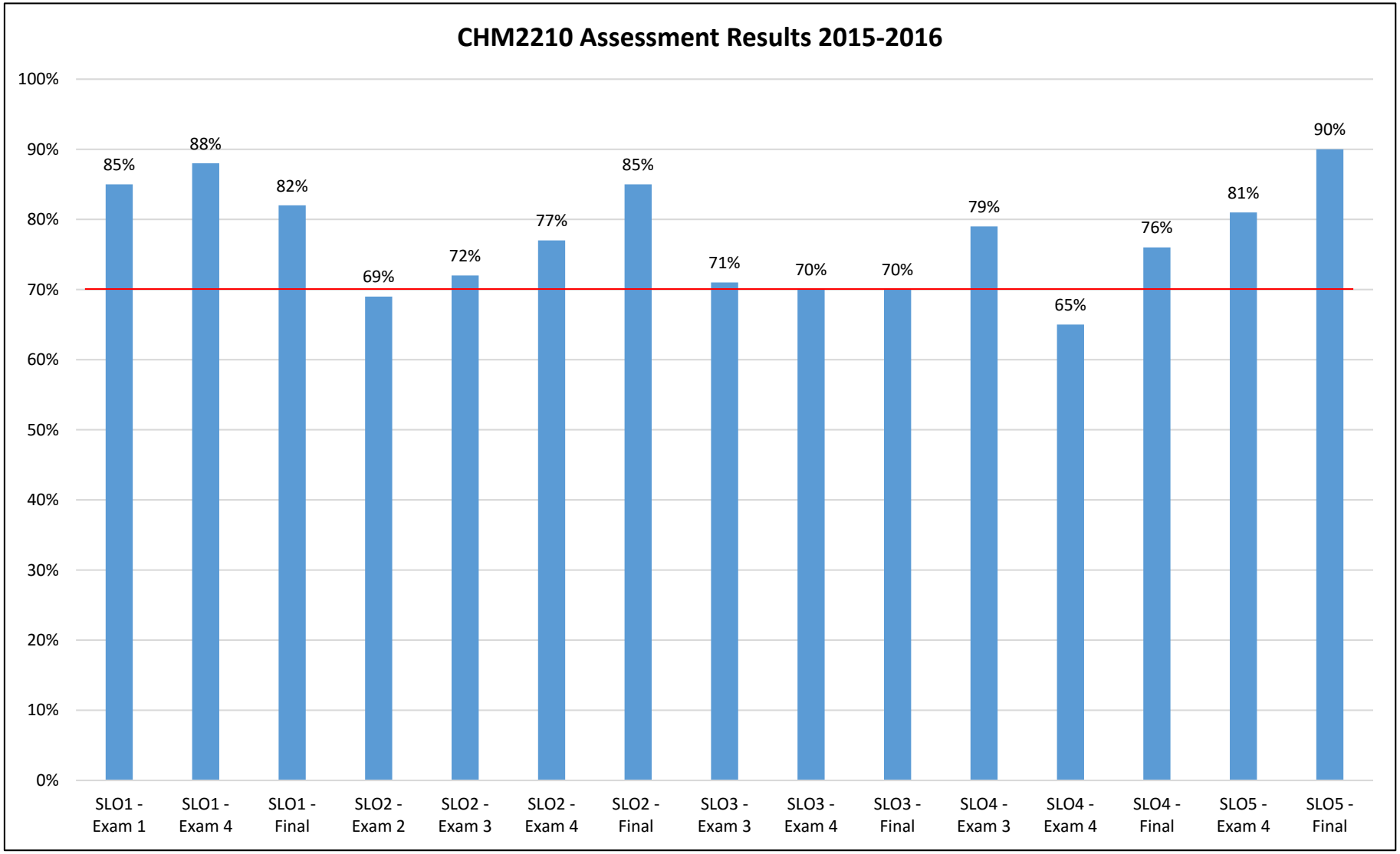
SLO 2: Identify the products of chemical reactions of the functional groups covered.

SLO 3: Apply an understanding of chemical reactions to multi-step synthesis of organic compounds.

SLO 4: Apply the concepts of stereochemistry to organic reactions.

SLO 5: Identify compounds on the basis of the evidence of spectroscopic tests

# CHM2210 - Course Assessment Results 2015/2016




*Student average for the questions*

***2015-16 Success Rate: 96%***

# MCB1010 - Course Learning Outcomes 2015/2016

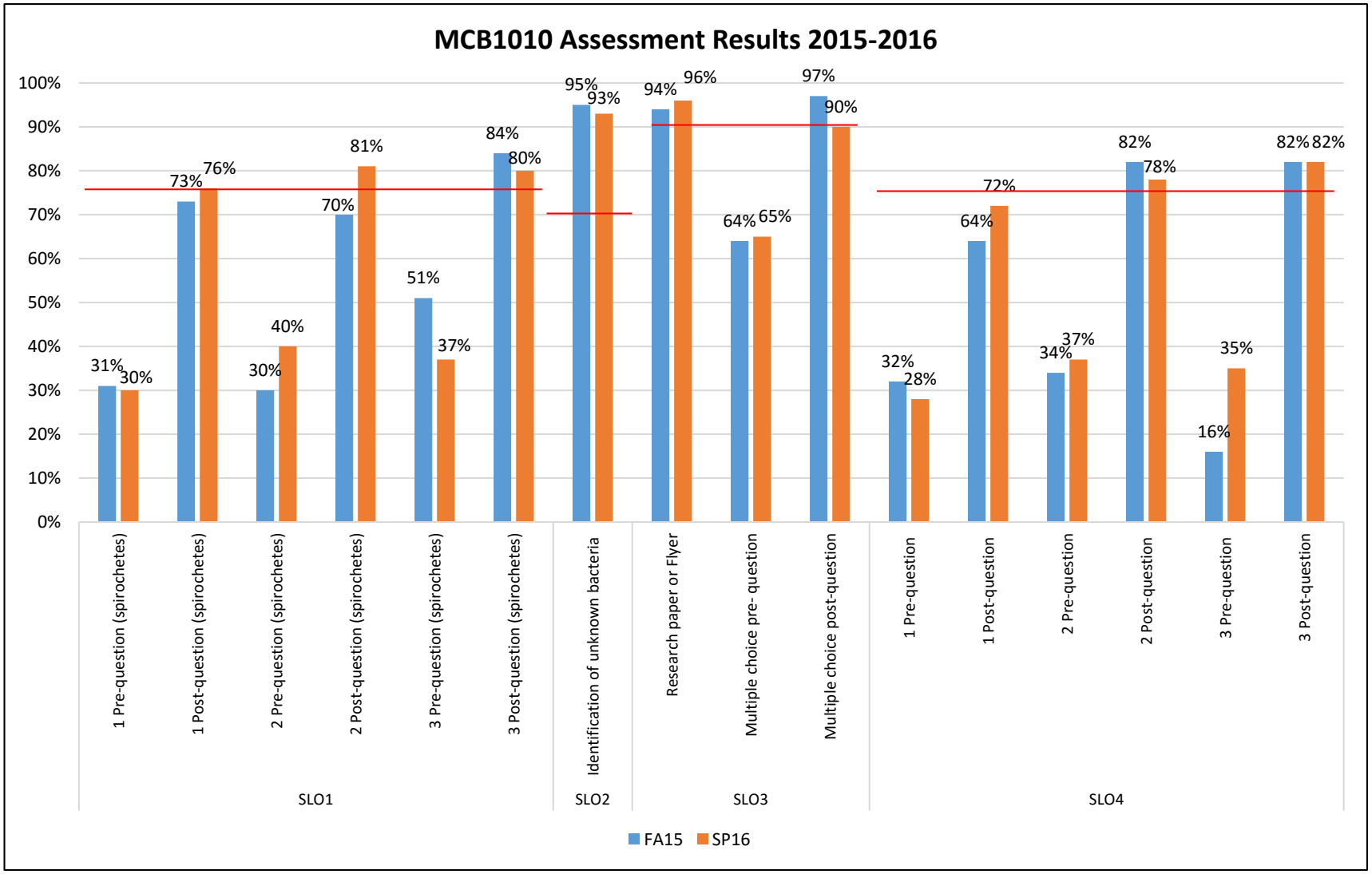
SLO 1: Describe morphological and structural features of bacteria and its function in the organism.

SLO 2: Operate the microscope to observe bacteria stained with various staining procedures.

SLO 3: Describe how infectious agents may be transmitted to a host and how they may cause disease.

SLO 4: Describe the nonspecific and specific immune host responses to an infectious agent.

# MCB1010 - Course Assessment Results 2015/2016



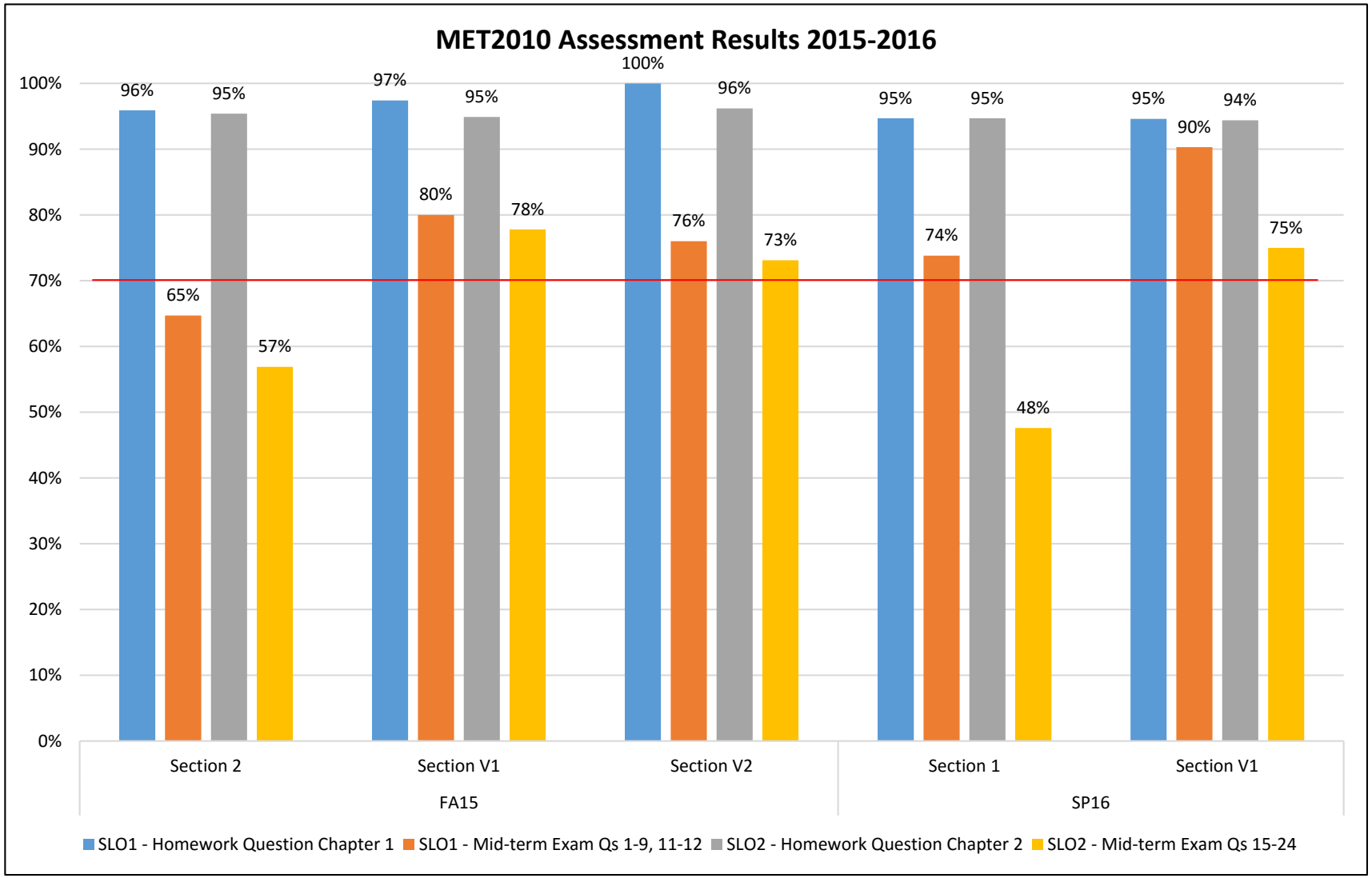

***2015-16 Success Rate: 86%***

# MET2010 - Course Learning Outcomes 2015/2016

SLO 1: Distinguish between weather and climate and describe the origin, composition and structure of the atmosphere.

SLO 2: Identify the various forms of electromagnetic radiation and describe how solar radiation interacts with the Earth’s surface and atmosphere.

# MET2010 - Course Assessment Results 2015/2016




***2015-16 Success Rate: 73%***

# OCE1001 - Course Learning Outcomes 2015/2016

SLO 1: Identify Earth's oceans ad their major features on a map of the world.

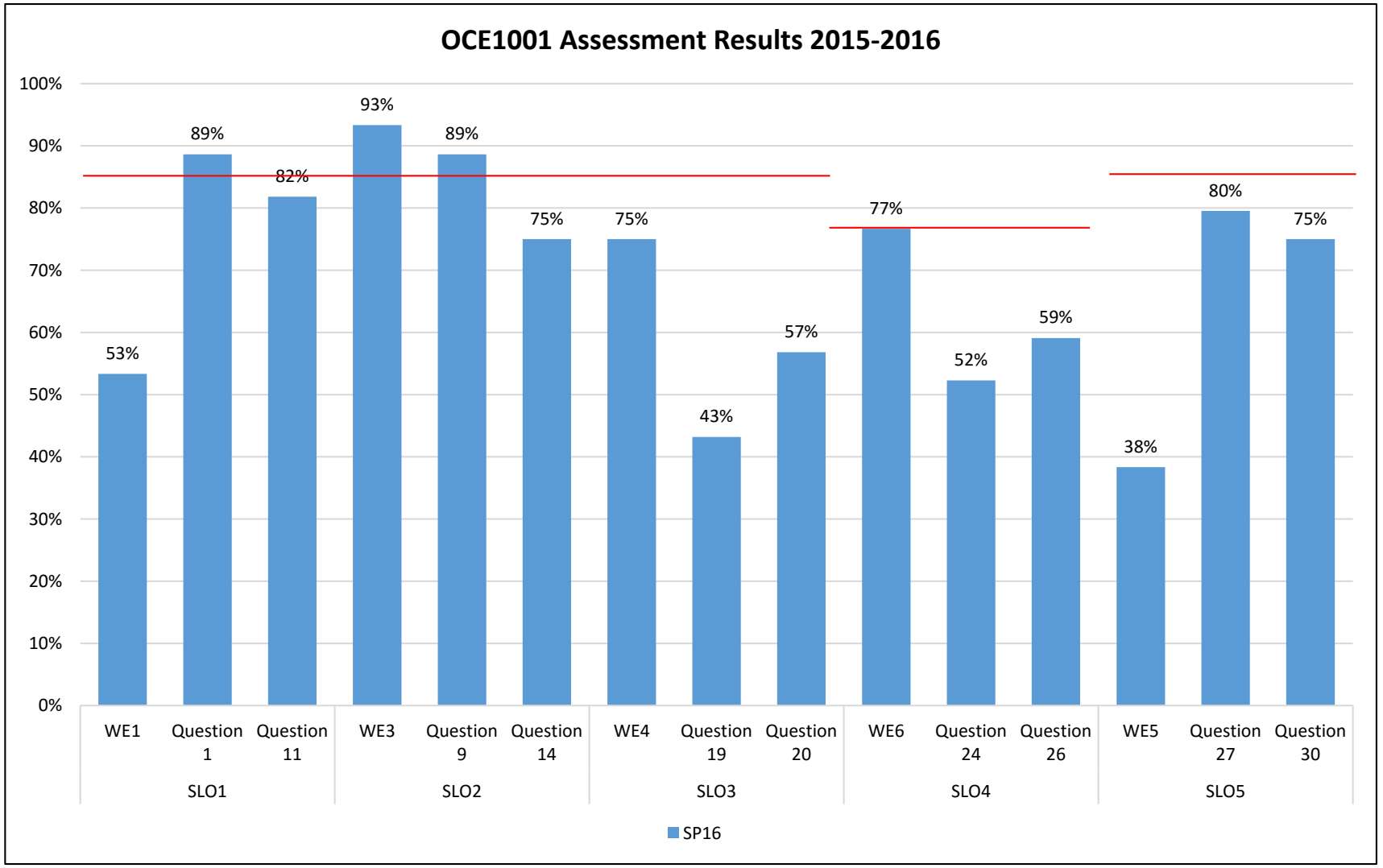
SLO 2: Explain plate tectonics and the features of the sea floor including the sediments, rocks and mineral deposits.

SLO 3: Explain the chemical and physical properties of seawater.

SLO 4: Evaluate the coupling effects of ocean and atmosphere.

SLO5: Distinguish types of ocean currents and the causes and nature of tides and waves.

# OCE1001 - Course Assessment Results 2015/2016




***2015-16 Success Rate: 87%***

# OCE2013/L - Course Learning Outcomes 2015/2016

SLO 1: Research and evaluate the multi-disciplinary phenomena that occur in the aquatic environment.

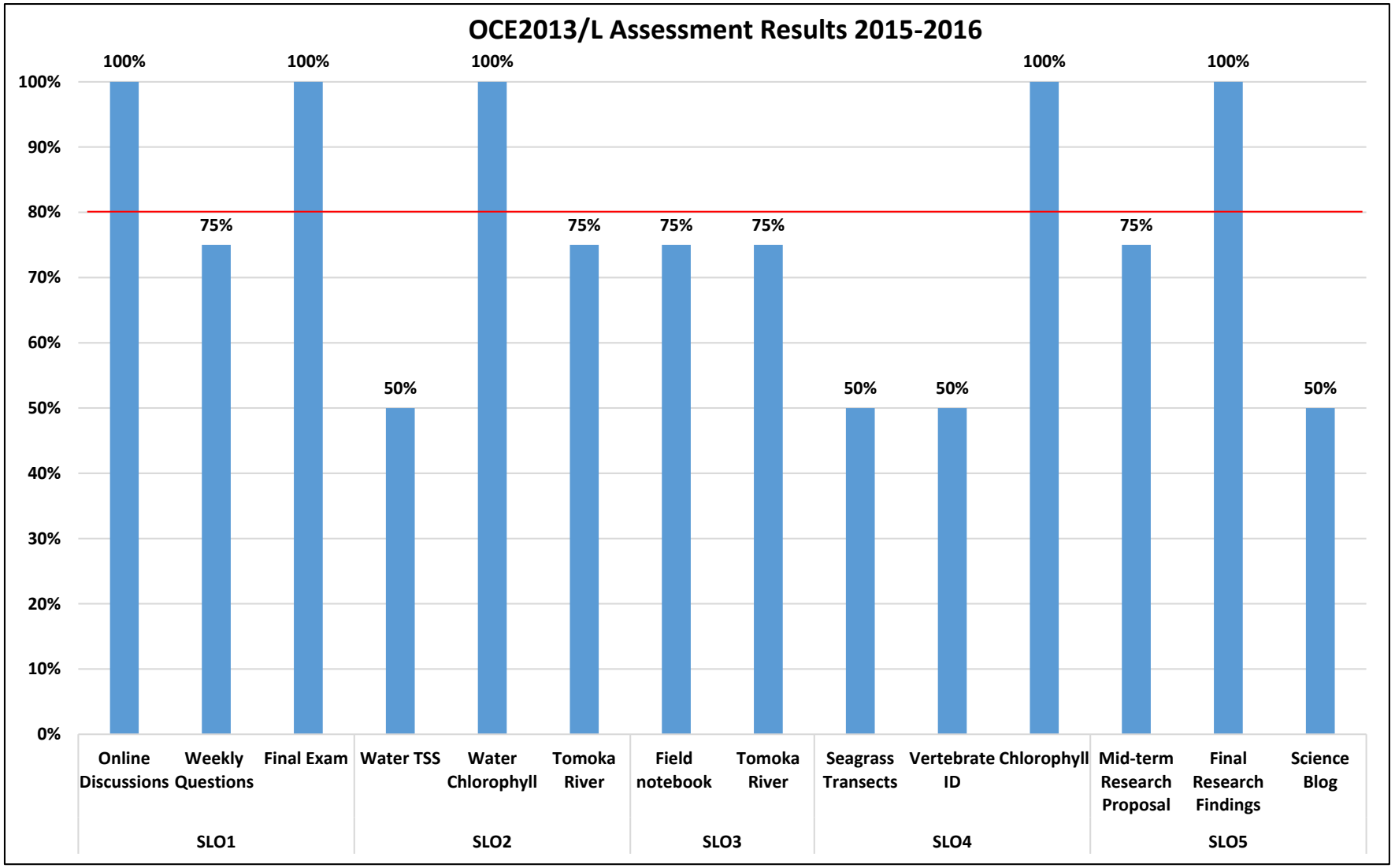
SLO 2: Calibrate and operate field and laboratory equipment for water quality measurements.

SLO 3: Appropriately collect water and sediment samples from various field locations for field and laboratory analysis.

SLO 4: Prepare graphics to suitably support the interpretation of field observations and laboratory analysis.

SLO5: Design and defend an effective presentation of their data.

# OCE2013/L - Course Assessment Results 2015/2016




***2015-16 Success Rate: 80%***

# PCB3060 - Course Learning Outcomes 2015/2016

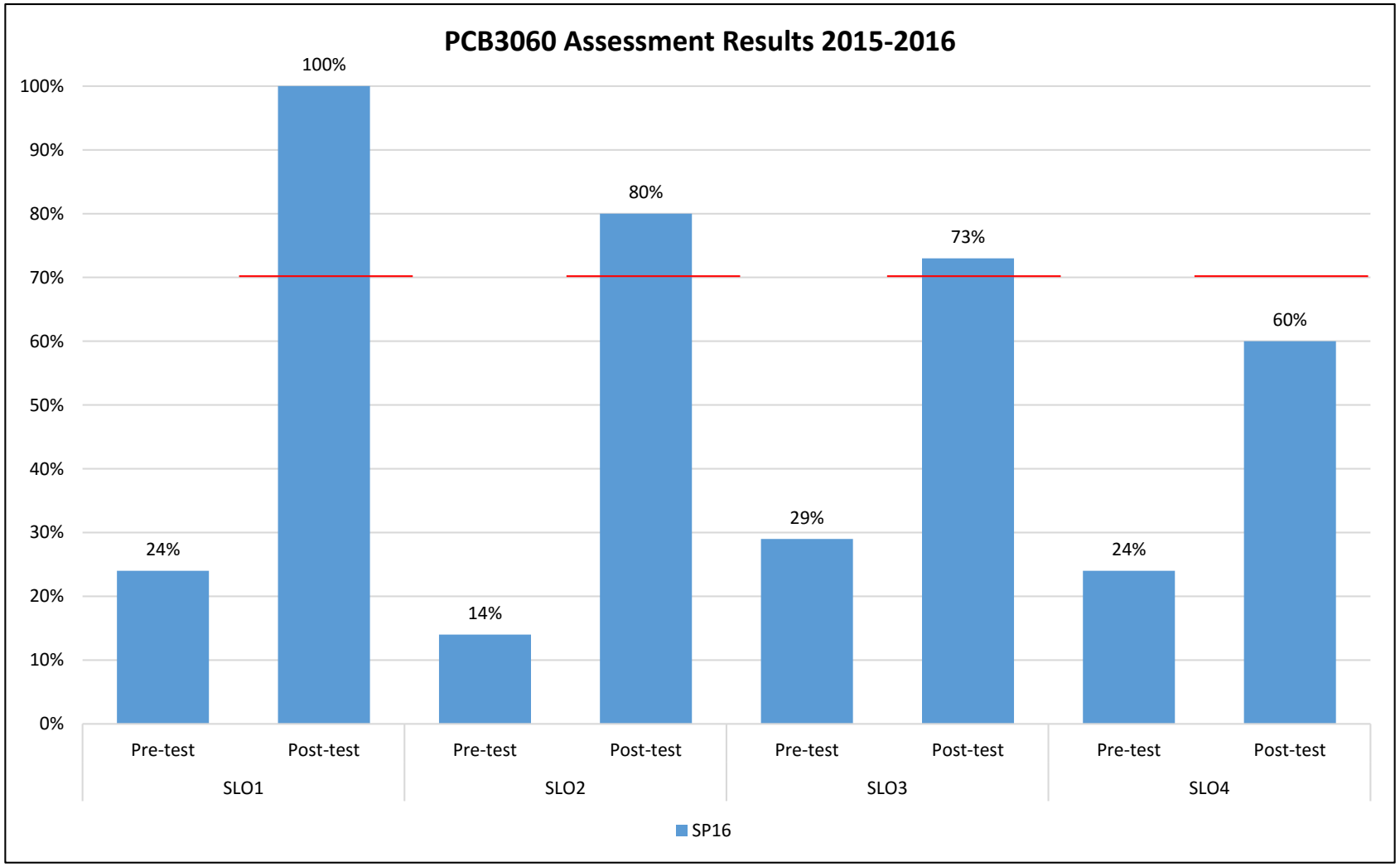
SLO 1: Use basic principles of heredity to solve genetic problems and solve population genetics problems using the Hardy-Weinberg equation and identify the assumptions upon which it is based.

SLO 2: Describe replication, transcription and translation, listing the molecules and events of each process and differences between prokaryotes and eukaryotes.

SLO 3: Distinguish between the various structures and functions of DNA and RNA and describe the processes of DNA mutation and repair.

SLO 4: Describe how mutations and chromosomal variations occur and explain their consequences.

# PCB3060 - Course Assessment Results 2015/2016




***2015-16 Success Rate: 50%***

# PCB3203 - Course Learning Outcomes 2015/2016

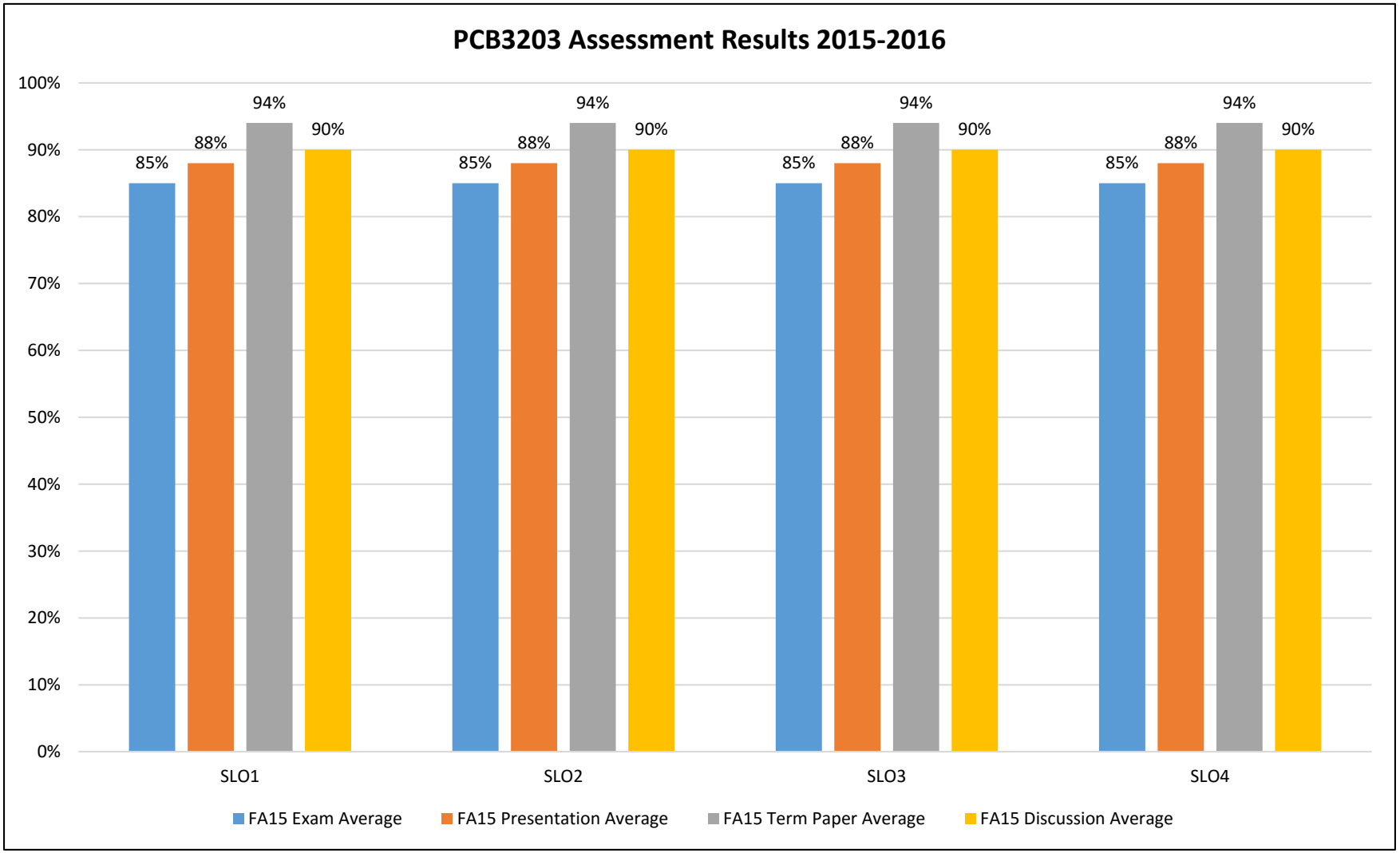
SLO 1: Understand the similarities and differences between prokaryotic and eukaryotic cells.

SLO 2: Compare and contrast the cellular physiology of different kinds of prokaryotic and eukaryotic cells from the molecular to protein level.

SLO 3: Understand the general characteristics of eukaryotic morphology, membrane structure and membrane transport.

SLO 4: Compare and contrast the physiology of plant and animal cell respiration, nutrient uptake, chemical signaling, cellular defense and reproduction.

# PCB3203 - Course Assessment Results 2015/2016



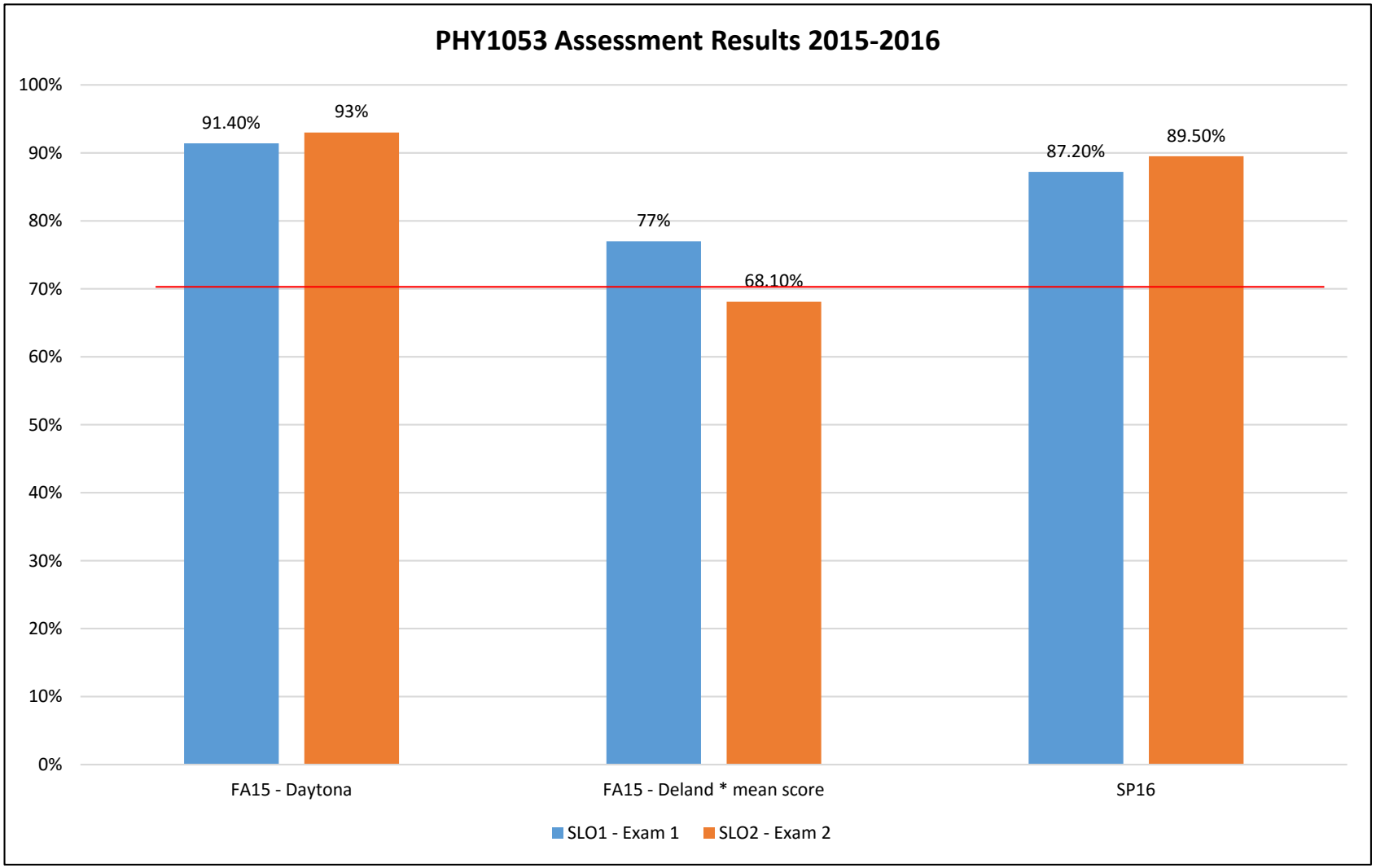

***2015-16 Success Rate: 88%***

# PHY1053 - Course Learning Outcomes 2015/2016

SLO 1: State the relationships between Kinematic variables such as displacement, velocity, acceleration, and time and solve for unknown quantities. *(1, 2, 4)*

SLO 2: Define Newton's three laws of motion and describe their importance. *(1, 2, 3, 4)*

# PHY1053 - Course Assessment Results 2015/2016




***2015-16 Success Rate: 89%***

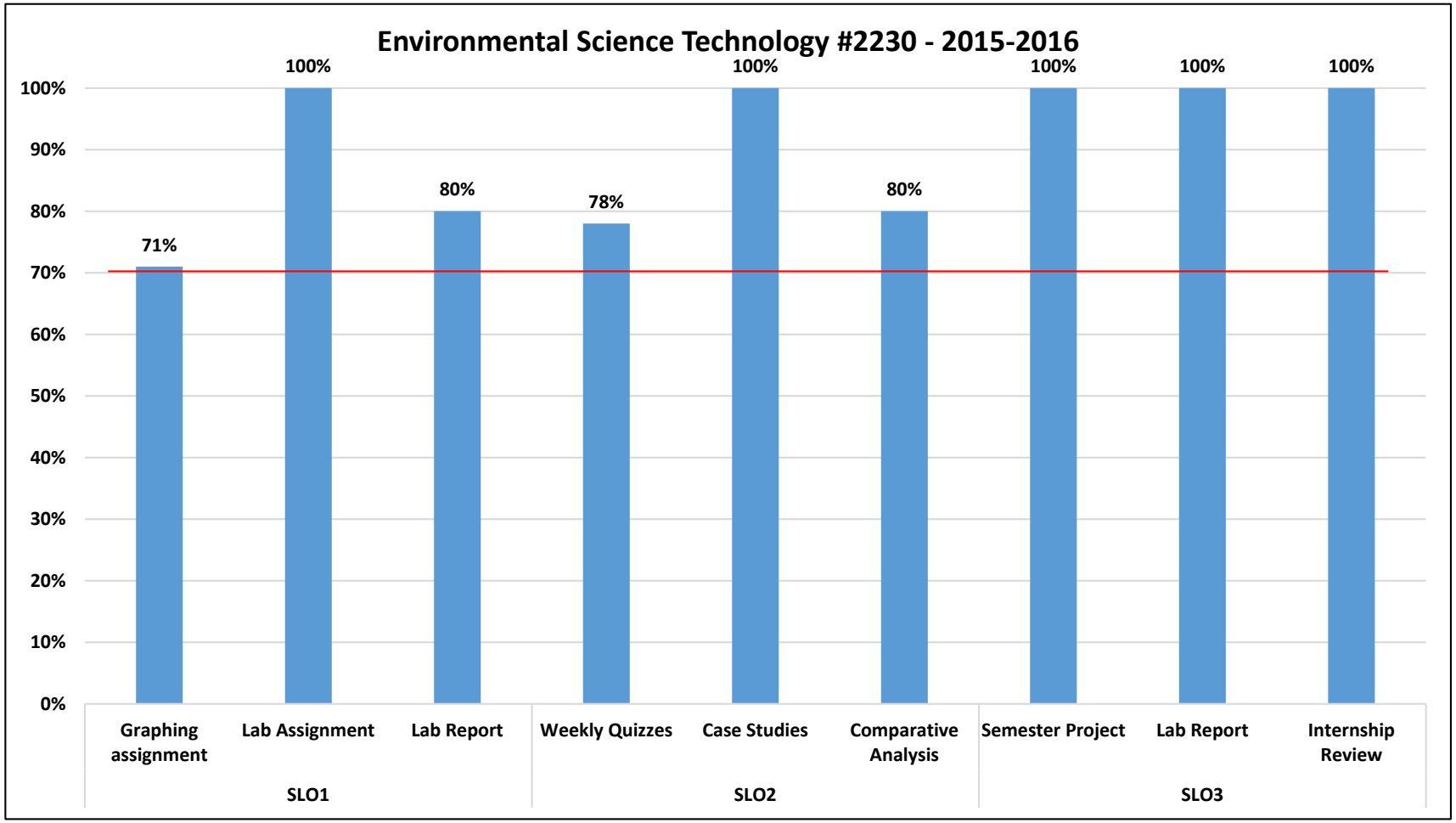
# Environmental Science Technology # 2230
# Learning Outcomes 2015/2016

SLO 1: Students will be able to identify and explain environmental processes and human - environment interactions. *(1, 2,3,4)*

SLO 2: Students will be able to apply interdisciplinary perspectives and approaches in order to critically analyze and evaluate environmental issues on local and global scales. *(1,2,4)*

SLO 3: Students will be able to monitor, sample and evaluate environmental conditions and design effective presentations of their data. *(1, 2, 4)*

# Environmental Science Technology # 2230 Assessment Results 2015/2016




*Target: 70% of students will achieve an 80% or higher in all assessment measures*

# Assessment Data 2014-2015 and 2015-2016: Programs and Institutional Learning Outcomes

| Program | Critical/ Creative Thinking | | Communication | | Cultural Literacy | | Information and Technical Literacy | |
|---|---|---|---|---|---|---|---|---|
| | 2014/15 | 2015/16 | 2014/15 | 2015/16 | 2014/15 | 2015/16 | 2014/15 | 2015/16 |
| Environmental Science Technology (2230) | 71%-100% | 71%-100% | 71%-100% | 71%-100% | 100% | 100% | 71%-100% | 71%-100% |

# Course Success Rate (1 of 2)



| Major or Department, Associated Courses and Instructional Method | | 2012-2013 | | 2013-2014 | | 2014-2015 | | 2015-2016 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful |
| SCI- Biological & Physical Science | AST1002 | 628 | 69% | 632 | 71% | 551 | 87% | 712 | 82% |
| | BOT1010 | 57 | 88% | 58 | 84% | 38 | 92% | 37 | 81% |
| | BOT2150 | | | | | | | 9 | 89% |
| | BSC1005 | 832 | 81% | 764 | 81% | 747 | 82% | 902 | 82% |
| | BSC1010 | 605 | 73% | 577 | 72% | 523 | 70% | 612 | 73% |
| | BSC1011 | 131 | 79% | 131 | 82% | 112 | 83% | 143 | 69% |
| | BSC1020 | 1,005 | 82% | 619 | 77% | 664 | 76% | 760 | 73% |
| | BSC1085 | 1,460 | 62% | 1,316 | 62% | 1,366 | 62% | 1536 | 63% |
| | BSC1086 | 870 | 81% | 814 | 85% | 786 | 80% | 958 | 81% |
| | BSC2930 | 226 | 69% | 337 | 76% | 440 | 79% | 199 | 79% |
| | CHM1020 | | | | | | | 75 | 87% |
| | CHM1025 | 746 | 85% | 766 | 89% | 772 | 85% | 813 | 86% |
| | CHM1045 | 307 | 72% | 329 | 67% | 353 | 78% | 373 | 77% |
| | CHM1046 | 155 | 85% | 122 | 80% | 167 | 83% | 152 | 85% |
| | CHM2210 | 34 | 79% | 37 | 84% | 34 | 82% | 49 | 96% |
| | CHM2211 | 19 | 100% | 25 | 76% | 24 | 96% | 37 | 97% |
| | EVR2001 | 4 | 100% | 6 | 67% | 7 | 100% | 35 | 69% |
| | GLY2010 | 34 | 82% | 14 | 93% | 16 | 100% | 14 | 93% |
| | GLY2100 | | | | | | | 3 | 100% |
| | MCB1010 | 581 | 85% | 532 | 88% | 539 | 88% | 628 | 86% |
| | MET2010 | 127 | 80% | 324 | 79% | 390 | 73% | 293 | 73% |
| | OCB2000 | 71 | 77% | 72 | 74% | 59 | 78% | 48 | 77% |
| | OCE1001 | 191 | 93% | 116 | 85% | 143 | 78% | 120 | 87% |
| | OCE2905 | | | | | | | 4 | 100% |
| | PHY1020 | 9 | 78% | 25 | 68% | 25 | 72% | 48 | 73% |
| | PHY1053 | 102 | 82% | 49 | 90% | 83 | 84% | 115 | 89% |
| | PHY1054 | 44 | 91% | 38 | 97% | 39 | 95% | 29 | 97% |
| | PHY2048 | 69 | 90% | 38 | 82% | 65 | 94% | 110 | 89% |
| | PHY2049 | 52 | 96% | 21 | 67% | 44 | 86% | 59 | 97% |
| | PSC1121 | 845 | 83% | 744 | 84% | 792 | 90% | 656 | 91% |
| | Total | | 78% | | 77% | | 78% | | 79% |

Indicates a success rate of 90% or higher
Indicates a success rate between 70% and 89%
Indicates a success rate below 70%

Source: IR Program Assessment Data

# Course Success Rate (2 of 2)

| Major or Department, Associated Courses and Instructional Method | | 2012-2013 | | 2013-2014 | | 2014-2015 | | 2015-2016 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful |
| 2230 – Environmental Science Tech. | EVR2861 | 3 | 33% | 4 | 100% | | | | |
| | EVR2933 | | | 2 | 100% | 5 | 100% | 5 | 80% |
| | EVR2943 | | | | | | | 4 | 75% |
| | GIS2040 | 12 | 75% | 16 | 75% | 16 | 94% | 10 | 100% |
| | OCE2013 | 4 | 100% | 1 | 100% | 7 | 86% | 5 | 80% |
| | PCB2033 | 4 | 100% | 2 | 100% | 5 | 100% | 5 | 80% |
| Upper Division | BCH3023 | 14 | 86% | 17 | 100% | 6 | 100% | 10 | 100% |
| | CHM3085 | | | | | | | 8 | 100% |
| | CHM3120 | | | | | | | 4 | 100% |
| | PCB3034 | 11 | 82% | 3 | 100% | 3 | 100% | 5 | 80% |
| | PCB3060 | 5 | 80% | 10 | 80% | 11 | 64% | 10 | 50% |
| | PCB3203 | 11 | 82% | 10 | 80% | 5 | 80% | 8 | 88% |
| | BOT3151 | 7 | 86% | 7 | 100% | 2 | 50% | 4 | 100% |
| | OCE3014 | | | | | | | 4 | 100% |

Indicates a success rate of 90% or higher
Indicates a success rate between 70% and 89%
Indicates a success rate below 70%

Source: IR Program Assessment Data

# Course Success Rate by Campus – Multiple Campuses Only (1 of 3)

| Dept., Associated Courses and Campus | | | 2012-2013 | | 2013-2014 | | 2014-2015 | | 2015-2016 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful |
| Biological/ Physical Sciences | AST1002 | Daytona | 181 | 57% | 157 | 66% | | | | |
| | | Deland | 73 | 82% | 106 | 81% | 63 | 90% | 89 | 89% |
| | | Deltona | 27 | 74% | 45 | 76% | | | | |
| | | Flagler/Palm Cst | 40 | 68% | 41 | 78% | 66 | 97% | 78 | 82% |
| | BSC1005 | Daytona | 364 | 88% | 334 | 87% | 327 | 87% | 300 | 90% |
| | | Deland | 144 | 72% | 104 | 79% | 78 | 90% | 66 | 95% |
| | | Deltona | 24 | 63% | 45 | 84% | 38 | 76% | 29 | 86% |
| | | Flagler/Palm Cst | 89 | 85% | 68 | 84% | 91 | 79% | 93 | 87% |
| | | New Smyrna Beach | 42 | 69% | 38 | 68% | 36 | 64% | 37 | 57% |
| | BSC1005L | Daytona | 56 | 79% | 44 | 89% | 49 | 88% | 50 | 92% |
| | | Deland | 26 | 85% | | | 9 | 78% | 12 | 75% |
| | | Flagler/Palm Cst | 31 | 84% | 12 | 100% | 10 | 100% | 9 | 67% |
| | BSC1010 | Daytona | 330 | 65% | 305 | 65% | 279 | 59% | 318 | 64% |
| | | Deland | 126 | 78% | 125 | 71% | 120 | 77% | 164 | 80% |
| | | Flagler/Palm Cst | 109 | 90% | 111 | 90% | 85 | 91% | 85 | 87% |
| | | New Smyrna Beach | 40 | 75% | 36 | 75% | 39 | 87% | 45 | 73% |
| | BSC1011 | Daytona | 118 | 79% | 111 | 80% | 100 | 82% | 124 | 67% |
| | | Deland | 13 | 77% | 20 | 90% | 12 | 92% | 19 | 79% |
| | BSC1020 | Daytona | 150 | 79% | 145 | 83% | 146 | 62% | 127 | 61% |
| | | Deland | 75 | 79% | 83 | 76% | 119 | 87% | 87 | 87% |
| | | Deltona | | | 33 | 88% | 26 | 88% | 18 | 100% |

Indicates a success rate of 90% or higher
Indicates a success rate between 70% and 89%
Indicates a success rate below 70%

Excludes fully online courses

Source: IR Program Assessment Data

# Course Success Rate by Campus – Multiple Campuses Only (2 of 3)

| Dept., Associated Courses and Campus | | | 2012-2013 | | 2013-2014 | | 2014-2015 | | 2015-2016 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful |
| Biological/ Physical Sciences | BSC1085 | Daytona | 757 | 55% | 632 | 58% | 644 | 56% | 757 | 50% |
| | | Deland | 374 | 68% | 356 | 63% | 371 | 58% | 350 | 71% |
| | | Flagler/Palm Cst | 162 | 62% | 126 | 61% | 141 | 79% | 143 | 68% |
| | | New Smyrna Beach | 64 | 77% | 78 | 76% | 54 | 80% | 172 | 85% |
| | BSC1086 | Daytona | 385 | 85% | 363 | 84% | 344 | 78% | 400 | 73% |
| | | Deland | 244 | 76% | 197 | 83% | 214 | 80% | 177 | 83% |
| | | Flagler/Palm Cst | 91 | 78% | 87 | 83% | 98 | 85% | 96 | 77% |
| | | New Smyrna Beach | 55 | 84% | 63 | 92% | 51 | 88% | 175 | 93% |
| | CHM1025 | Daytona | 437 | 85% | 440 | 86% | 380 | 82% | 386 | 80% |
| | | Deland | 139 | 81% | 151 | 89% | 129 | 87% | 140 | 89% |
| | | Flagler/Palm Cst | 139 | 90% | 139 | 96% | 148 | 88% | 131 | 92% |
| | | New Smyrna Beach | 31 | 71% | 36 | 92% | 35 | 83% | 34 | 88% |
| | CHM1045 | Daytona | 246 | 73% | 248 | 64% | 283 | 78% | 316 | 76% |
| | | Deland | 61 | 69% | 81 | 75% | 70 | 76% | 57 | 86% |
| | CHM1046 | Daytona | 134 | 87% | 104 | 83% | 150 | 84% | 139 | 84% |
| | | Deland | 21 | 67% | 18 | 61% | 17 | 71% | 13 | 92% |
| | MCB1010 | Daytona | 224 | 81% | 199 | 85% | 211 | 82% | 254 | 85% |
| | | Deland | 126 | 89% | 130 | 90% | 133 | 95% | 145 | 94% |
| | | Flagler/Palm Cst | 103 | 90% | 98 | 96% | 96 | 98% | 84 | 92% |
| | | New Smyrna Beach | 31 | 74% | 17 | 76% | 19 | 84% | 65 | 82% |
| | OCE1001 | Daytona | 99 | 94% | 93 | 87% | 67 | 82% | 68 | 90% |
| | | Deland | 62 | 94% | 23 | 78% | | | | |
| | | Flagler/Palm Cst | | | | | 24 | 75% | 12 | 83% |
| | | New Smyrna Beach | 30 | 87% | | | 52 | 75% | 40 | 83% |

Indicates a success rate of 90% or higher
Indicates a success rate between 70% and 89%
Indicates a success rate below 70%

Excludes fully online courses

Source: IR Program Assessment Data

# Course Success Rate by Campus – Multiple Campuses Only (3 of 3)

| Dept., Associated Courses and Campus | | | 2012-2013 | | 2013-2014 | | 2014-2015 | | 2015-2016 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful |
| Biological/ Physical Science | PHY1053 | Daytona | 91 | 81% | 49 | 90% | 66 | 85% | 101 | 88% |
| | | Deland | 11 | 91% | | | 17 | 82% | 14 | 93% |
| | PHY1054 | Daytona | | | | | | | 16 | 94% |
| | | Deland | | | | | | | 13 | 100% |
| | PSC1121 | Daytona | 170 | 69% | 121 | 62% | 75 | 89% | | |
| | | Deland | 61 | 87% | 45 | 96% | 28 | 96% | 30 | 90% |
| | | Deltona | 14 | 86% | | | 38 | 82% | | |
| | | Flagler/Palm Cst | 18 | 94% | 24 | 83% | 28 | 96% | | |

Indicates a success rate of 90% or higher
Indicates a success rate between 70% and 89%
Indicates a success rate below 70%

Excludes fully online courses

Source: IR Program Assessment Data

# Course Success Rate By Instructional Method – Multiple Methods Only (1 of 3)

| Dept., Associated Courses and Instructional Method | | | 2012-2013 | | 2013-2014 | | 2014-2015 | | 2015-2016 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful |
| Biological/ Physical Science | AST1002 | Lecture | 321 | 66% | 349 | 73% | 129 | 94% | 167 | 86% |
| | | Online | 307 | 72% | 283 | 69% | 422 | 85% | 545 | 81% |
| | BSC1005 | Hybrid | 24 | 67% | 16 | 69% | 54 | 78% | 90 | 78% |
| | | Lecture | 639 | 83% | 573 | 84% | 516 | 84% | 435 | 89% |
| | | Online | 169 | 73% | 175 | 74% | 177 | 76% | 377 | 75% |
| | BSC1020 | Lecture | 225 | 79% | 261 | 82% | 291 | 75% | 232 | 74% |
| | | Online | 780 | 83% | 358 | 73% | 373 | 77% | 528 | 73% |
| | BSC1085 | Lecture | 1357 | 61% | 1192 | 61% | 1210 | 60% | 1250 | 58% |
| | | Online | 103 | 79% | 124 | 77% | 156 | 72% | 286 | 84% |
| | BSC1086 | Lecture | 775 | 81% | 710 | 84% | 707 | 80% | 673 | 76% |
| | | Online | 95 | 83% | 104 | 90% | 79 | 77% | 285 | 93% |
| | BSC2930 | Lecture | 60 | 80% | 59 | 78% | 65 | 78% | 34 | 82% |
| | | Online | 166 | 65% | 278 | 76% | 375 | 79% | 165 | 79% |

Indicates a success rate of 90% or higher
Indicates a success rate between 70% and 89%
Indicates a success rate below 70%

Source: IR Program Assessment Data

# Course Success Rate By Instructional Method – Multiple Methods Only (2 of 3)

| Dept., Associated Courses and Instructional Method | | | 2012-2013 | | 2013-2014 | | 2014-2015 | | 2015-2016 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful |
| Biological/ Physical Science | CHM1020 | Hybrid | | | | | | | 9 | 78% |
| | | Online | | | | | | | 66 | 88% |
| | CHM1025 | Hybrid | 121 | 80% | 131 | 87% | 120 | 85% | 198 | 91% |
| | | Lecture | 625 | 86% | 635 | 89% | 572 | 84% | 493 | 82% |
| | | Online | | | | | 80 | 88% | 122 | 94% |
| | MCB1010 | Hybrid | | | | | | | 28 | 71% |
| | | Lecture | 484 | 85% | 444 | 89% | 459 | 89% | 455 | 90% |
| | | Online | 97 | 87% | 88 | 84% | 80 | 81% | 145 | 77% |
| | MET2010 | Lecture | 127 | 80% | 113 | 74% | 143 | 65% | 106 | 64% |
| | | Online | | | 211 | 81% | 247 | 78% | 187 | 79% |
| | PHY1053 | Hybrid | | | | | | | 41 | 83% |
| | | Lecture | | | | | | | 74 | 92% |
| | PSC1121 | Hybrid | 18 | 94% | 24 | 83% | 28 | 96% | | |
| | | Lecture | 245 | 74% | 166 | 71% | 141 | 89% | 30 | 90% |
| | | Online | 582 | 86% | 554 | 87% | 623 | 90% | 626 | 91% |
| DSC | | Hybrid | | 82% | | 81% | | 83% | | 81% |
| | | Lecture | | 77% | | 77% | | 78% | | 80% |
| | | Online | | 76% | | 75% | | 76% | | 78% |

Indicates a success rate of 90% or higher
Indicates a success rate between 70% and 89%
Indicates a success rate below 70%

Source: IR Program Assessment Data

# Course Success Rate By Instructional Method – Multiple Methods Only (3 of 3)

| Major, Associated Courses and Instructional Method | | | 2012-2013 | | 2013-2014 | | 2014-2015 | | 2015-2016 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful |
| 2230 – Environmental Science Technology | EVR2861 | DIS | | | 1 | 100% | | | | |
| | | Lecture | 3 | 33% | 4 | 100% | | | | |
| | OCE2013 | DIS | | | 1 | 100% | | | | |
| | | Hybrid | | | | | | | 5 | 80% |
| | | Lecture | 4 | 100% | | | | | | |
| | | Online | | | | | 7 | 86% | | |
| | OCE2013L | DIS | | | 1 | 100% | | | | |
| | | Lab | 4 | 100% | | | 7 | 86% | 5 | 80% |

Indicates a success rate of 90% or higher
Indicates a success rate between 70% and 89%
Indicates a success rate below 70%

Source: IR Program Assessment Data

# Course Success Rates- Multiple Sessions or Sub-sessions Only (1 of 4)

| Major or Dept., Associated Courses and Sub-session | | | 2012-2013 | | 2013-2014 | | 2014-2015 | | 2015-2016 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful |
| Upper Division | CHM3085 | FA Full term | | | | | | | 7 | 100% |
| | | SU Full term | | | | | | | 1 | 100% |
| Biological/ Physical Science | AST1002 | A term | 43 | 88% | 34 | 59% | 69 | 84% | 74 | 82% |
| | | FA B term | 34 | 82% | 51 | 51% | 42 | 83% | 80 | 76% |
| | | Full term | 214 | 69% | 213 | 72% | 124 | 85% | 165 | 85% |
| | | A term | 37 | 54% | 47 | 83% | 57 | 89% | 81 | 89% |
| | | SP B term | 70 | 53% | 83 | 82% | 109 | 83% | 157 | 76% |
| | | Full term | 116 | 58% | 146 | 70% | 65 | 97% | 74 | 77% |
| | | SU Full term | 114 | 82% | 58 | 69% | 85 | 89% | 81 | 90% |
| | BOT1010 | FA Full term | 20 | 95% | 32 | 84% | 19 | 89% | 20 | 80% |
| | | SP Full term | 37 | 84% | 26 | 85% | 19 | 95% | 17 | 82% |
| | BSC1005 | FA B term | | | | | | | 38 | 68% |
| | | FA Full term | 414 | 80% | 397 | 81% | 372 | 81% | 331 | 86% |
| | | A term | | | | | | | 72 | 82% |
| | | SP B term | | | | | | | 77 | 69% |
| | | Full term | 358 | 79% | 321 | 80% | 338 | 81% | 384 | 84% |
| | | SU Full term | 60 | 92% | 46 | 91% | 37 | 95% | | |
| | BSC1010 | FA Full term | 329 | 72% | 311 | 74% | 252 | 71% | 290 | 74% |
| | | SP Full term | 234 | 74% | 225 | 67% | 233 | 67% | 280 | 70% |
| | | SU Full term | 42 | 74% | 41 | 83% | 38 | 84% | 42 | 81% |
| | BSC1011 | FA Full term | 32 | 69% | 37 | 78% | 39 | 72% | 32 | 59% |
| | | SP Full term | 77 | 83% | 77 | 79% | 62 | 87% | 79 | 62% |
| | | SU Full term | 22 | 77% | 17 | 100% | 11 | 100% | 32 | 94% |

Indicates a success rate of 90% or higher
Indicates a success rate between 70% and 89%
Indicates a success rate below 70%

Years are reporting years, SU-SP.
Blank cells or missing years indicate no enrollment.

Source: IR Program Assessment Data

# Course Success Rates- Multiple Sessions or Sub-sessions Only (2 of 4)

| Dept., Associated Courses and Sub-session | | | | 2012-2013 | | 2013-2014 | | 2014-2015 | | 2015-2016 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful |
| Biological/ Physical Sciences | BSC1020 | FA | A term | 74 | 89% | 88 | 78% | 49 | 76% | 59 | 58% |
| | | | B term | 115 | 82% | 87 | 59% | 57 | 75% | 67 | 54% |
| | | | Full term | 233 | 79% | 197 | 81% | 270 | 75% | 215 | 80% |
| | | SP | A term | 74 | 89% | | | | | | |
| | | | B term | 94 | 80% | 66 | 73% | 74 | 77% | 109 | 71% |
| | | | Full term | 218 | 75% | 181 | 82% | 214 | 77% | 188 | 74% |
| | | SU | Full term | 197 | 89% | | | | | 122 | 81% |
| | BSC1085 | FA | A term | 18 | 67% | 22 | 86% | 17 | 82% | 74 | 88% |
| | | | Full term | 686 | 56% | 605 | 63% | 656 | 55% | 650 | 66% |
| | | SP | A term | 20 | 90% | 29 | 72% | 16 | 88% | 36 | 89% |
| | | | Full term | 580 | 63% | 529 | 55% | 573 | 65% | 640 | 53% |
| | | SU | Full term | 156 | 80% | 131 | 81% | 104 | 76% | 136 | 74% |
| | BSC1086 | FA | B term | 19 | 89% | 18 | 94% | 17 | 82% | 68 | 94% |
| | | | Full term | 272 | 79% | 213 | 78% | 208 | 78% | 211 | 75% |
| | | SP | B term | 19 | 68% | 21 | 95% | 18 | 89% | 54 | 89% |
| | | | Full term | 387 | 79% | 409 | 84% | 396 | 78% | 422 | 78% |
| | | SU | Full term | 173 | 91% | 153 | 95% | 147 | 88% | 203 | 87% |
| | BSC2930 | FA | B term | | | 36 | 69% | | | | |
| | | | Full term | 96 | 65% | 96 | 80% | 171 | 79% | 137 | 79% |
| | | SP | B term | | | | | 56 | 77% | | |
| | | | Full term | 130 | 72% | 133 | 71% | 131 | 79% | | |
| | | SU | Full term | | | 72 | 82% | 82 | 80% | 62 | 81% |

Indicates a success rate of 90% or higher
Indicates a success rate between 70% and 89%
Indicates a success rate below 70%

Years are reporting years, SU-SP.
Blank cells or missing years indicate no enrollment.

Source: IR Program Assessment Data

# Course Success Rates- Multiple Sessions or Sub-sessions Only (3 of 4)

| Dept., Associated Courses and Sub-session | | | | 2012-2013 | | 2013-2014 | | 2014-2015 | | 2015-2016 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful |
| Biological/ Physical Sciences | CHM1020 | FA | Full term | | | | | | | 24 | 83% |
| | | SP | Full term | | | | | | | 51 | 88% |
| | CHM1025 | FA | Full term | 327 | 80% | 347 | 90% | 343 | 84% | 334 | 82% |
| | | SP | Full term | 354 | 87% | 348 | 88% | 357 | 84% | 382 | 88% |
| | | SU | Full term | 65 | 95% | 71 | 90% | 72 | 94% | 97 | 93% |
| | CHM1045 | FA | Full term | 136 | 71% | 139 | 63% | 151 | 81% | 157 | 79% |
| | | SP | Full term | 115 | 66% | 134 | 64% | 148 | 78% | 167 | 71% |
| | | SU | Full term | 56 | 89% | 56 | 82% | 54 | 69% | 49 | 92% |
| | CHM1046 | FA | Full term | 40 | 83% | 33 | 88% | 35 | 66% | 32 | 63% |
| | | SP | Full term | 61 | 79% | 58 | 72% | 88 | 84% | 82 | 89% |
| | | SU | Full term | 54 | 93% | 31 | 84% | 44 | 93% | 38 | 95% |
| | CHM2905 | FA | Full term | | | | | 1 | 100% | | |
| | | SP | Full term | | | | | 1 | 100% | | |
| | EVR2001 | FA | Full term | | | | | | | 6 | 83% |
| | | SP | Full term | | | | | | | 29 | 66% |
| | GLY2010 | FA | Full term | 16 | 88% | | | 16 | 100% | | |
| | | SP | Full term | 18 | 78% | 14 | 93% | | | | |
| | MCB1010 | FA | Full term | 209 | 84% | 192 | 88% | 195 | 86% | 250 | 87% |
| | | SP | Full term | 250 | 86% | 232 | 87% | 247 | 87% | 316 | 84% |
| | | SU | Full term | 122 | 84% | 108 | 92% | 97 | 95% | 62 | 94% |
| | MCB2905 | FA | Full term | | | 1 | 100% | 1 | 100% | | |
| | | SP | Full term | | | 3 | 100% | | | | |
| | | SU | Full term | | | 1 | 100% | | | | |
| | MET2010 | FA | Full term | | | | | | | 126 | 75% |
| | | SP | Full term | | | | | | | 88 | 65% |
| | | SU | Full term | | | | | | | 79 | 81% |

Indicates a success rate of 90% or higher
Indicates a success rate between 70% and 89%
Indicates a success rate below 70%

Years are reporting years, SU-SP.
Blank cells or missing years indicate no enrollment.

Source: IR Program Assessment Data

# Course Success Rates- Multiple Sessions or Sub-sessions Only (4 of 4)

| Dept., Associated Courses and Sub-session | | | | 2012-2013 | | 2013-2014 | | 2014-2015 | | 2015-2016 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful | Attempted | % Successful |
| Biological/ Physical Sciences | OCB2000 | FA | Full term | 38 | 76% | 38 | 71% | 40 | 75% | 28 | 75% |
| | | SP | Full term | 33 | 79% | 34 | 76% | 19 | 84% | 20 | 80% |
| | OCE1001 | FA | Full term | 92 | 93% | 81 | 80% | 63 | 89% | 57 | 82% |
| | | SP | Full term | 99 | 92% | 35 | 97% | 80 | 70% | 63 | 90% |
| | PHY1020 | FA | Full term | | | | | | | 10 | 90% |
| | | SP | Full term | | | | | | | 38 | 68% |
| | PHY1053 | FA | Full term | 57 | 79% | 49 | 90% | 83 | 84% | 74 | 92% |
| | | SP | Full term | 45 | 87% | | | | | 41 | 83% |
| | PHY1054 | SP | Full term | 30 | 93% | 38 | 97% | 39 | 95% | | |
| | | SU | Full term | 14 | 86% | | | | | | |
| | PHY2048 | FA | Full term | 43 | 84% | 38 | 82% | 65 | 94% | 74 | 88% |
| | | SP | Full term | 26 | 100% | | | | | 36 | 92% |
| | PHY2049 | SP | Full term | 30 | 100% | 21 | 67% | 44 | 86% | | |
| | | SU | Full term | 22 | 91% | | | | | | |
| | PSC1121 | FA | A term | 67 | 85% | 70 | 87% | 86 | 87% | 96 | 93% |
| | | | B term | 80 | 80% | 63 | 90% | 65 | 92% | 77 | 92% |
| | | | Full term | 186 | 80% | 178 | 79% | 211 | 90% | 116 | 91% |
| | | SP | A term | 110 | 89% | 84 | 79% | 95 | 91% | 83 | 90% |
| | | | B term | 109 | 80% | 88 | 83% | 97 | 84% | 83 | 87% |
| | | | Full term | 189 | 81% | 214 | 84% | 152 | 91% | 113 | 89% |
| | | SU | Full term | 104 | 89% | 47 | 96% | 86 | 93% | 88 | 91% |

Indicates a success rate of 90% or higher
Indicates a success rate between 70% and 89%
Indicates a success rate below 70%

Years are reporting years, SU-SP.
Blank cells or missing years indicate no enrollment.

Source: IR Program Assessment Data

# Ws, Fs, and FNs Fall 2015

| Section | Students Registered | A | % | B | % | C | % | D | % | FN | % | F | % | W | % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AST1002 | 319 | 87 | 27.3% | 124 | 38.9% | 51 | 16.0% | 13 | 4.1% | 19 | 6.0% | 18 | 5.6% | 7 | 2.2% |
| BCH3023 | 10 | 8 | 80.0% | 2 | 20.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| BOT1010 | 20 | 12 | 60.0% | 4 | 20.0% | 0 | 0.0% | 0 | 0.0% | 1 | 5.0% | 0 | 0.0% | 3 | 15.0% |
| BSC1005 | 369 | 149 | 40.4% | 102 | 27.6% | 59 | 16.0% | 16 | 4.3% | 11 | 3.0% | 11 | 3.0% | 21 | 5.7% |
| BSC1010 | 290 | 66 | 22.8% | 89 | 30.7% | 59 | 20.3% | 25 | 8.6% | 6 | 2.1% | 22 | 7.6% | 23 | 7.9% |
| BSC1011 | 32 | 3 | 9.4% | 7 | 21.9% | 9 | 28.1% | 6 | 18.8% | 0 | 0.0% | 3 | 9.4% | 4 | 12.5% |
| BSC1020 | 341 | 104 | 30.5% | 87 | 25.5% | 50 | 14.7% | 21 | 6.2% | 33 | 9.7% | 12 | 3.5% | 34 | 10.0% |
| BSC1085 | 728 | 132 | 18.1% | 193 | 26.5% | 169 | 23.2% | 58 | 8.0% | 38 | 5.2% | 68 | 9.3% | 70 | 9.6% |
| BSC1086 | 279 | 48 | 17.2% | 96 | 34.4% | 79 | 28.3% | 16 | 5.7% | 5 | 1.8% | 10 | 3.6% | 25 | 9.0% |
| BSC2930 | 138 | 27 | 19.6% | 56 | 40.6% | 25 | 18.1% | 8 | 5.8% | 10 | 7.2% | 4 | 2.9% | 8 | 5.8% |
| CHM1020 | 24 | 5 | 20.8% | 9 | 37.5% | 6 | 25.0% | 2 | 8.3% | 0 | 0.0% | 0 | 0.0% | 2 | 8.3% |
| CHM1025 | 335 | 93 | 27.8% | 112 | 33.4% | 69 | 20.6% | 16 | 4.8% | 4 | 1.2% | 17 | 5.1% | 24 | 7.2% |
| CHM1045 | 157 | 54 | 34.4% | 37 | 23.6% | 33 | 21.0% | 11 | 7.0% | 7 | 4.5% | 6 | 3.8% | 9 | 5.7% |
| CHM1046 | 32 | 5 | 15.6% | 7 | 21.9% | 8 | 25.0% | 6 | 18.8% | 0 | 0.0% | 2 | 6.3% | 4 | 12.5% |
| CHM2210 | 52 | 19 | 36.5% | 16 | 30.8% | 12 | 23.1% | 0 | 0.0% | 0 | 0.0% | 1 | 1.9% | 1 | 1.9% |
| CHM3085 | 7 | 7 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| EVR2001 | 6 | 5 | 83.3% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 1 | 16.7% |
| GIS2040 | 10 | 6 | 60.0% | 3 | 30.0% | 1 | 10.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| GLY2010 | 14 | 5 | 35.7% | 4 | 28.6% | 4 | 28.6% | 1 | 7.1% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| MCB1010 | 250 | 96 | 38.4% | 94 | 37.6% | 27 | 10.8% | 4 | 1.6% | 5 | 2.0% | 4 | 1.6% | 20 | 8.0% |
| MET2010 | 126 | 24 | 19.0% | 42 | 33.3% | 28 | 22.2% | 9 | 7.1% | 9 | 7.1% | 6 | 4.8% | 8 | 6.3% |
| OCB2000 | 28 | 5 | 17.9% | 9 | 32.1% | 7 | 25.0% | 0 | 0.0% | 3 | 10.7% | 0 | 0.0% | 4 | 14.3% |
| OCE1001 | 57 | 19 | 33.3% | 22 | 38.6% | 6 | 10.5% | 3 | 5.3% | 1 | 1.8% | 1 | 1.8% | 5 | 8.8% |
| OCE2905 | 4 | 4 | 100.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% |
| PCB2033 | 5 | 4 | 80.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 1 | 20.0% | 0 | 0.0% |
| PCB3203 | 8 | 6 | 75.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 1 | 12.5% |
| PHY1020 | 10 | 2 | 20.0% | 2 | 20.0% | 5 | 50.0% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 1 | 10.0% |
| PHY1053 | 74 | 41 | 55.4% | 21 | 28.4% | 6 | 8.1% | 0 | 0.0% | 1 | 1.4% | 2 | 2.7% | 3 | 4.1% |
| PHY2048 | 74 | 13 | 17.6% | 22 | 29.7% | 30 | 40.5% | 0 | 0.0% | 0 | 0.0% | 0 | 0.0% | 9 | 12.2% |
| PSC1121 | 289 | 161 | 55.7% | 81 | 28.0% | 23 | 8.0% | 3 | 1.0% | 11 | 3.8% | 3 | 1.0% | 7 | 2.4% |
| Total | 4088 | 1210 | 29.6% | 1241 | 30.4% | 766 | 18.7% | 218 | 5.3% | 164 | 4% | 191 | 4.7% | 294 | 7.2% |

# Ws, Fs, and FNs Spring 2016

| Section | Students Registered | A | % | B | % | C | % | D | % | FN | % | F | % | W | % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AST1002 | 313 | 62 | 19.8% | 121 | 38.7% | 66 | 21.1% | 25 | 8.0% | 13 | 4.2% | 11 | 3.5% | 15 | 4.8% |
| BOT1010 | 17 | 5 | 29.4% | 7 | 41.2% | 2 | 11.8% | 0 | 0.0% | 1 | 5.9% | 0 | 0.0% | 2 | 11.8% |
| BSC1005 | 534 | 181 | 33.9% | 175 | 32.8% | 77 | 14.4% | 14 | 2.6% | 41 | 7.7% | 23 | 4.3% | 23 | 4.3% |
| BSC1010 | 282 | 66 | 23.4% | 67 | 23.8% | 64 | 22.7% | 20 | 7.1% | 10 | 3.5% | 27 | 9.6% | 28 | 9.9% |
| BSC1011 | 79 | 7 | 8.9% | 19 | 24.1% | 23 | 29.1% | 6 | 7.6% | 3 | 3.8% | 6 | 7.6% | 15 | 19.0% |
| BSC1020 | 297 | 100 | 33.7% | 73 | 24.6% | 44 | 14.8% | 19 | 6.4% | 22 | 7.4% | 17 | 5.7% | 22 | 7.4% |
| BSC1085 | 677 | 96 | 14.2% | 154 | 22.7% | 124 | 18.3% | 32 | 4.7% | 58 | 8.6% | 47 | 6.9% | 166 | 24.5% |
| BSC1086 | 477 | 85 | 17.8% | 146 | 30.6% | 146 | 30.6% | 40 | 8.4% | 14 | 2.9% | 20 | 4.2% | 26 | 5.5% |
| CHM1020 | 51 | 19 | 37.3% | 14 | 27.5% | 12 | 23.5% | 0 | 0.0% | 3 | 5.9% | 0 | 0.0% | 3 | 5.9% |
| CHM1025 | 382 | 133 | 34.8% | 132 | 34.6% | 72 | 18.8% | 8 | 2.1% | 15 | 3.9% | 8 | 2.1% | 14 | 3.7% |
| CHM1045 | 167 | 38 | 22.8% | 41 | 24.6% | 40 | 24.0% | 10 | 6.0% | 2 | 1.2% | 4 | 2.4% | 32 | 19.2% |
| CHM1046 | 82 | 24 | 29.3% | 32 | 39.0% | 17 | 20.7% | 0 | 0.0% | 1 | 1.2% | 0 | 0.0% | 8 | 9.8% |
| EVR2001 | 29 | 6 | 20.7% | 8 | 27.6% | 5 | 17.2% | 1 | 3.4% | 3 | 10.3% | 3 | 10.3% | 3 | 10.3% |
| MCB1010 | 316 | 109 | 34.5% | 108 | 34.2% | 49 | 15.5% | 9 | 2.8% | 6 | 1.9% | 9 | 2.8% | 26 | 8.2% |
| MET2010 | 88 | 21 | 23.9% | 29 | 33.0% | 7 | 8.0% | 6 | 6.8% | 8 | 9.1% | 12 | 13.6% | 5 | 5.7% |
| OCB2000 | 21 | 4 | 19.0% | 9 | 42.9% | 4 | 19.0% | 0 | 0.0% | 2 | 9.5% | 0 | 0.0% | 2 | 9.5% |
| OCE1001 | 63 | 24 | 38.1% | 29 | 46.0% | 4 | 6.3% | 0 | 0.0% | 1 | 1.6% | 2 | 3.2% | 3 | 4.8% |
| PHY1020 | 38 | 8 | 21.1% | 13 | 34.2% | 5 | 13.2% | 2 | 5.3% | 4 | 10.5% | 3 | 7.9% | 3 | 7.9% |
| PHY1053 | 41 | 13 | 31.7% | 13 | 31.7% | 8 | 19.5% | 2 | 4.9% | 2 | 4.9% | 2 | 4.9% | 1 | 2.4% |
| PHY2048 | 36 | 1 | 2.8% | 12 | 33.3% | 20 | 55.6% | 0 | 0.0% | 0 | 0.0% | 1 | 2.8% | 2 | 5.6% |
| PSC1121 | 280 | 160 | 57.1% | 61 | 21.8% | 27 | 9.6% | 7 | 2.5% | 19 | 6.8% | 5 | 1.8% | 1 | 0.4% |
| Total | 4270 | 1162 | 27.2% | 1263 | 29.6% | 816 | 19.1% | 201 | 4.7% | 228 | 5.3% | 200 | 4.7% | 400 | 9.4% |

# Average Class Size by Course (1 of 2)



| Dept. and Associated Courses | | 2012-2013 | | 2013-2014 | | 2014-2015 | | 2015-2016 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Sections | Avg. Size | Sections | Avg. Size | Sections | Avg. Size | Sections | Avg. Size |
| Biological/Physical Sciences | AST1002 | 20 | 31 | 21 | 30 | 13 | 42 | 12 | 59 |
| | BOT1010 | 2 | 29 | 2 | 29 | 2 | 19 | 2 | 19 |
| | BOT2150 | | | | | | | 1 | 9 |
| | BSC1005 | 25 | 33 | 21 | 36 | 18 | 42 | 21 | 43 |
| | BSC1010 | 13 | 47 | 13 | 44 | 13 | 40 | 15 | 41 |
| | BSC1011 | 5 | 26 | 5 | 26 | 5 | 22 | 5 | 29 |
| | BSC1020 | 24 | 42 | 13 | 48 | 14 | 47 | 17 | 45 |
| | BSC1085 | 27 | 54 | 26 | 51 | 24 | 57 | 25 | 61 |
| | BSC1086 | 25 | 35 | 23 | 35 | 23 | 34 | 22 | 44 |
| | BSC2930 | 7 | 32 | 9 | 37 | 9 | 49 | 5 | 40 |
| | CHM1020 | | | | | | | 3 | 25 |
| | CHM1025 | 17 | 44 | 17 | 45 | 20 | 39 | 20 | 41 |
| | CHM1045 | 8 | 38 | 8 | 41 | 8 | 44 | 8 | 47 |
| | CHM1046 | 5 | 31 | 5 | 24 | 5 | 33 | 5 | 30 |
| | CHM2210 | 1 | 34 | 1 | 37 | 1 | 34 | 1 | 49 |
| | CHM2211 | 1 | 19 | 1 | 25 | 1 | 24 | 1 | 37 |
| | EVR2001 | 1 | 4 | 1 | 6 | 1 | 7 | 2 | 18 |
| | GLY2010 | 2 | 17 | 1 | 14 | 1 | 16 | 1 | 14 |
| | MCB1010 | 23 | 25 | 18 | 30 | 17 | 32 | 15 | 42 |
| | MET2010 | 4 | 32 | 8 | 41 | 8 | 49 | 7 | 42 |
| | OCB2000 | 2 | 36 | 2 | 36 | 2 | 30 | 2 | 24 |
| | OCE1001 | 6 | 32 | 4 | 29 | 5 | 29 | 5 | 24 |
| | PHY1020 | 1 | 9 | 1 | 25 | 1 | 25 | 2 | 24 |
| | PHY1053 | 3 | 34 | 1 | 49 | 2 | 42 | 3 | 38 |
| | PHY1054 | 3 | 15 | 1 | 38 | 1 | 39 | 2 | 15 |
| | PHY2048 | 2 | 35 | 1 | 38 | 1 | 65 | 2 | 55 |
| | PHY2049 | 2 | 26 | 1 | 21 | 1 | 44 | 1 | 59 |
| | PSC1121 | 27 | 31 | 21 | 35 | 18 | 44 | 11 | 60 |
| | Total | 254 | 36 | 223 | 38 | 212 | 41 | 230 | 43 |

Years are reporting years, SU-SP.

Blank cells or missing years indicate no enrollment.

To prevent data from skewing, excludes labs, OJT, clinicals, private/performance, open lab, co-op, directed independent study and internships.

Source: IR Program Assessment Data

# Average Class Size by Course (2 of 2)

| Major and Associated Courses | | 2012-2013 | | 2013-2014 | | 2014-2015 | | 2015-2016 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Sections | Avg. Size | Sections | Avg. Size | Sections | Avg. Size | Sections | Avg. Size |
| 2230 - Environmental Science Tech. | EVR2861 | 1 | 3 | 1 | 4 | | | | |
| | EVR2933 | | | 1 | 2 | 1 | 5 | 1 | 5 |
| | GIS2040 | 1 | 12 | 1 | 16 | 1 | 16 | 1 | 10 |
| | OCE2013 | 1 | 4 | | | 1 | 7 | 1 | 5 |
| | PCB2033 | 1 | 4 | 1 | 2 | 1 | 5 | 1 | 5 |
| | Total | 6 | 6 | 6 | 9 | 6 | 11 | 8 | 14 |
| Upper Division Courses | BCH3023 | 1 | 14 | 1 | 17 | 1 | 6 | 1 | 10 |
| | CHM3085 | | | | | | | 1 | 7 |
| | CHM3120 | | | | | | | 1 | 4 |
| | PCB3034 | 1 | 11 | 1 | 3 | 1 | 3 | 1 | 5 |
| | PCB3060 | 1 | 5 | 1 | 10 | 1 | 11 | 1 | 10 |
| | PCB3203 | 1 | 11 | 1 | 10 | 1 | 5 | 1 | 8 |
| | BOT3151 | 1 | 7 | 1 | 7 | 1 | 2 | 1 | 4 |
| | OCE3014 | | | | | | | 1 | 4 |
| | Total | 5 | 10 | 5 | 15 | 5 | 6 | 8 | 4 |

Years are reporting years, SU-SP.

Blank cells or missing years indicate no enrollment.

To prevent data from skewing, excludes labs, OJT, clinicals, private/performance, open lab, co-op, directed independent study and internships.

Source: IR Program Assessment Data

# Average Class Size – Multiple Methods Only

| Dept., Associated Courses and Instructional Method | | | 2012-2013 | | 2013-2014 | | 2014-2015 | | 2015-2016 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sections | Avg. Size | Sections | Avg. Size | Sections | Avg. Size | Sections | Avg. Size |
| Biological/Physical Sciences | AST1002 | Lecture | 12 | 27 | 14 | 25 | 4 | 32 | 4 | 42 |
| | | Online | 8 | 38 | 7 | 40 | 9 | 47 | 8 | 68 |
| | BSC1005 | Hybrid | 1 | 24 | 1 | 16 | 2 | 27 | 3 | 30 |
| | | Lecture | 18 | 36 | 14 | 41 | 11 | 47 | 10 | 44 |
| | | Online | 6 | 28 | 6 | 29 | 5 | 35 | 8 | 47 |
| | BSC1020 | Lecture | 4 | 56 | 5 | 52 | 6 | 49 | 6 | 39 |
| | | Online | 20 | 39 | 8 | 45 | 8 | 47 | 11 | 48 |
| | BSC1085 | Lecture | 24 | 57 | 23 | 52 | 22 | 55 | 20 | 63 |
| | | Online | 3 | 34 | 3 | 41 | 2 | 78 | 5 | 57 |
| | BSC1086 | Lecture | 22 | 35 | 20 | 36 | 21 | 34 | 17 | 40 |
| | | Online | 3 | 32 | 3 | 35 | 2 | 40 | 5 | 57 |
| | BSC2930 | Lecture | 2 | 30 | 2 | 30 | 2 | 33 | 1 | 34 |
| | | Online | 5 | 33 | 7 | 40 | 7 | 54 | 4 | 41 |
| | CH<1020 | Hybrid | | | | | | | 1 | 9 |
| | | Online | | | | | | | 2 | 33 |
| | CHM1025 | Hybrid | 5 | 24 | 5 | 26 | 5 | 24 | 6 | 33 |
| | | Lecture | 12 | 52 | 12 | 53 | 13 | 44 | 11 | 45 |
| | | Online | | | | | 2 | 40 | 3 | 41 |
| | MCB1010 | Hybrid | | | | | | | 1 | 28 |
| | | Lecture | 19 | 25 | 15 | 30 | 15 | 31 | 10 | 46 |
| | | Online | 4 | 24 | 3 | 29 | 2 | 40 | 4 | 36 |
| | MET2010 | Lecture | 4 | 32 | 3 | 38 | 2 | 72 | 2 | 53 |
| | | Online | | | 5 | 42 | 6 | 41 | 5 | 37 |
| | PHY1053 | Hybrid | | | | | | | 1 | 41 |
| | | Lecture | | | | | | | 2 | 37 |
| | PSC1121 | Hybrid | 1 | 18 | 1 | 24 | 1 | 28 | | |
| | | Lecture | 9 | 27 | 6 | 28 | 3 | 47 | 1 | 30 |
| | | Online | 17 | 34 | 14 | 40 | 14 | 45 | 10 | 63 |

To prevent data from skewing, the following instructional methods are excluded: labs associated with lectures, Private/Performance, OJT, clinicals, co-op, DIS, field trips and internships. Years are reporting years, SU-SP. Blank cells or missing years indicate no enrollment.

Source: IR Program Assessment Data

# Average Class Size Totals

| Major or Dept. and Instructional Method | | 2012-2013 | | 2013-2014 | | 2014-2015 | | 2015-2016 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Sections | Avg. Size | Sections | Avg. Size | Sections | Avg. Size | Sections | Avg. Size |
| 2230 - Environmental Science Tech. | Lecture | 6 | 6 | 6 | 9 | 5 | 12 | 1 | 5 |
| | Online | | | | | 1 | 7 | 7 | 15 |
| | Total | 6 | 6 | 6 | 9 | 6 | 11 | 8 | 14 |
| Upper Division Courses | Hybrid | 1 | 11 | 1 | 3 | 1 | 3 | 2 | 5 |
| | Lecture | 4 | 9 | 4 | 10 | 4 | 5 | 6 | 4 |
| | Total | 5 | 10 | 5 | 7 | 5 | 4 | 8 | 4 |
| Biological/Physical Sciences | Hybrid | 15 | 26 | 12 | 25 | 14 | 26 | 36 | 23 |
| | Lecture | 173 | 38 | 155 | 39 | 141 | 41 | 129 | 43 |
| | Online | 66 | 35 | 56 | 39 | 57 | 46 | 65 | 51 |
| | Total | 254 | 36 | 223 | 38 | 212 | 41 | 230 | 43 |
| Total | | 265 | 35 | 234 | 37 | 223 | 40 | 246 | 40 |

**College Total**

| Instructional Method | 2012-2013 Avg. Size | 2013-2014 Avg. Size | 2014-2015 Avg. Size | 2015-2016 Avg. Size |
|---|---|---|---|---|
| Hybrid | 22 | 22 | 22 | 21 |
| Lecture | 23 | 23 | 22 | 22 |
| Online | 27 | 28 | 29 | 30 |
| College Total | 23.7 | 23.9 | 24.6 | 25 |

To prevent data from skewing, the following instructional methods are excluded: labs associated with lectures, Private/Performance, OJT, clinicals, co-op, DIS, field trips and internships. Years are reporting years, SU-SP. Blank cells or missing years indicate no enrollment.

Source: IR Program Assessment Data

# Graduation Rates

| Major | Fall Cohort Year | # in Cohort | Graduated within 150% Time | 150% Graduation Rate | Graduated within 200% Time | 200% Graduation Rate |
|---|---|---|---|---|---|---|
| 2230-Environmental Science Technology | 2011 | 11 | 0 | 0.0% | 0 | 0.0% |
| | 2012 – 200% in progress | 11 | 0 | 0.0% | 2 | 18.2% |
| | 2013 – in progress | 21 | 1 | 4.8% | 2 | 9.5% |

**Less than College average (150%- 44.8%, 200%- 49.23%)**

Fall Cohort Year includes prior Summer term enrollment in major.

Graduation within 200% time includes graduates within 150% time.

Source: IR Program Assessment Data

# Retention Rates

| Program and Year | | Registered | Exclusions | Adjusted Cohort | Retained by DSC | | Retained by Program | | Total Retained |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | N | % | N | % | |
| 2230 - ENVIRONMENTAL SCIENCE TECH. | 2011 | 11 | | 11 | 2 | 18.18% | 4 | 36.36% | 54.55% |
| | 2012 | 22 | | 22 | 2 | 9.09% | 9 | 40.91% | 50.00% |
| | 2013 | 39 | 2 | 37 | 6 | 16.22% | 11 | 29.73% | 45.95% |
| | 2014 | 33 | 3 | 30 | 5 | 16.67% | 10 | 33.33% | 49.99% |

**Less than College average (FT- 60.48%, PT- 52.08%)**

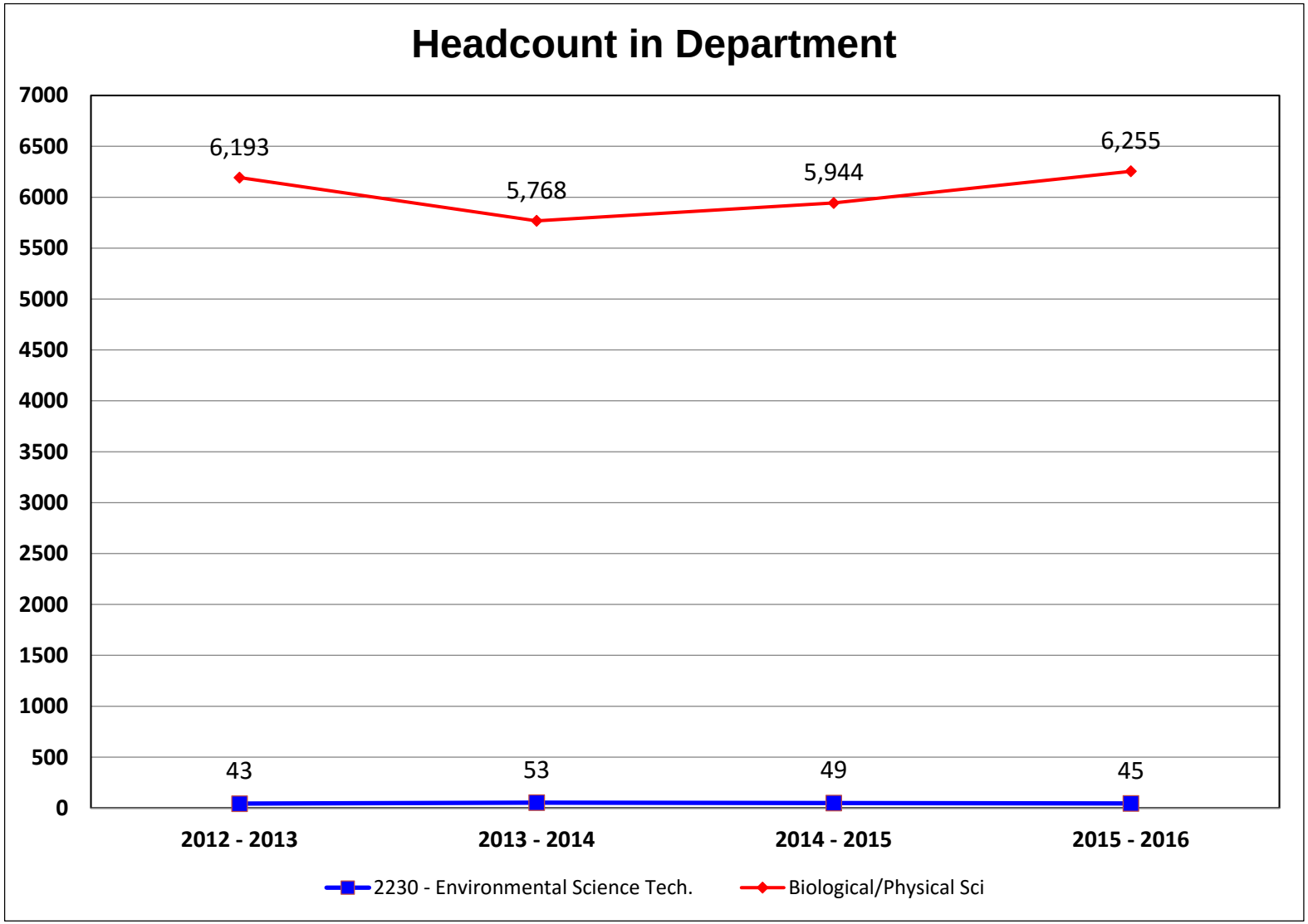
Registered - Includes all students enrolled in the fall term of the specified year, with the specified program as their primary major.
Exclusions - Includes students who are deceased or graduated fall of the specified year or the following spring or summer.
Retained by DSC - Students who were still registered at DSC the following fall but with a different primary major.
Retained by Program - Students who were registered the following fall with the same primary major.

Source: IR Program Assessment Data

| Placement Rates | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Program Title | Major | 2010/11 DSC% | 2010/11 FCS% | 2011/12 DSC% | 2011/12 FCS% | 2012/13 DSC% | 2012/13 FCS% | 2013/14 DSC% | 2013/14 FCS% | Average Annual Salary |
| Environmental Science Tech. | 2230 | Program started in 2011 | | | | | | 100% | 79% | $**,*** |

Indicates the College average above the State Averages
Indicates the College average same as the State Averages
Indicates the College average below the State Averages

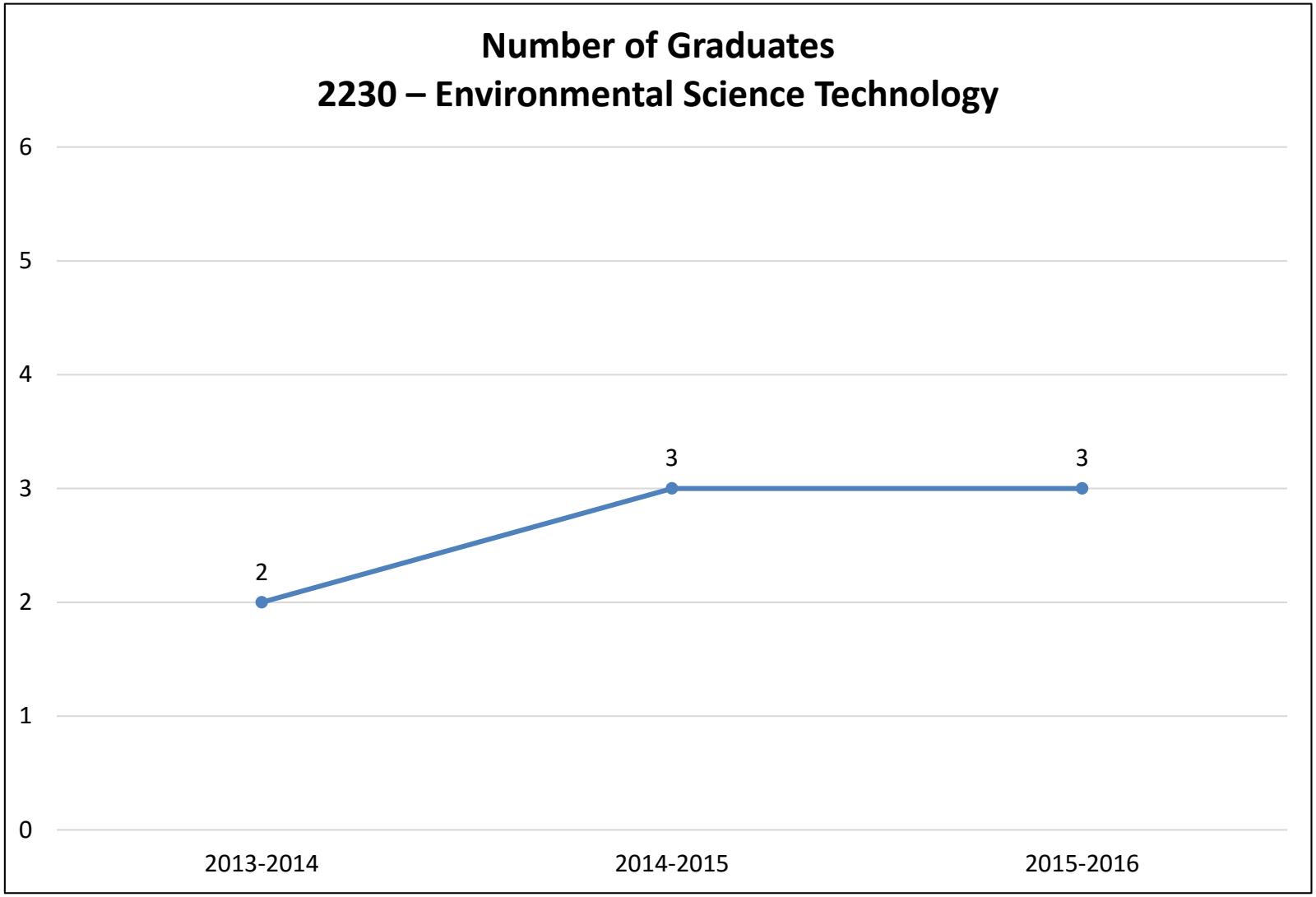
Source: IR Program Assessment Data



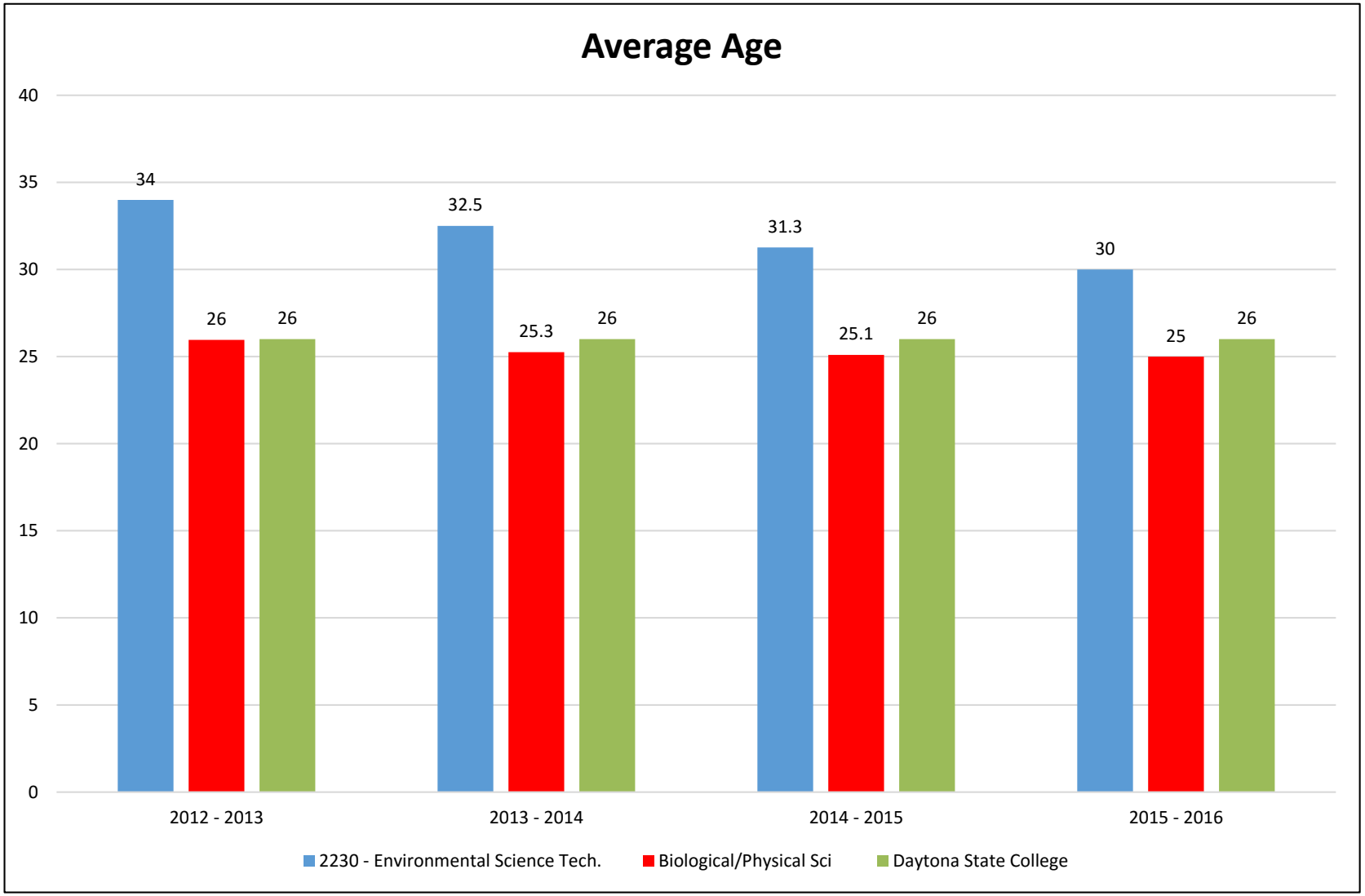

*College Enrollment Decreased: 7.9%(12/13); 3%(13/14); 0.73%(14/15); 1.14% (15/16)*

Headcount in majors includes students who have declared that major.
Headcount in department includes students taking courses in the department.

Source: IR Program Assessment Data

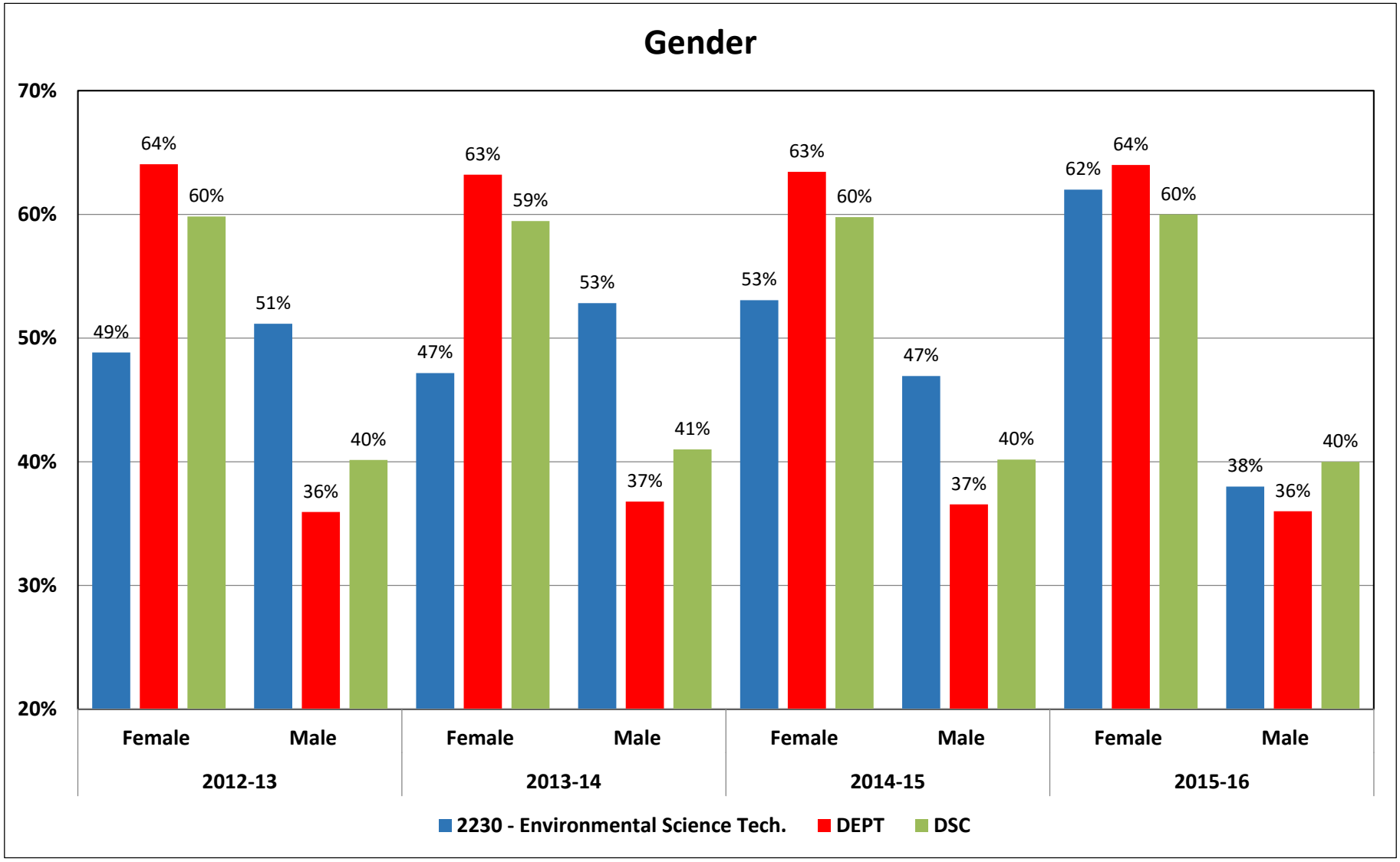



Source: IR Program Assessment Data




Calculation excludes individuals whose birthdates are not reported.

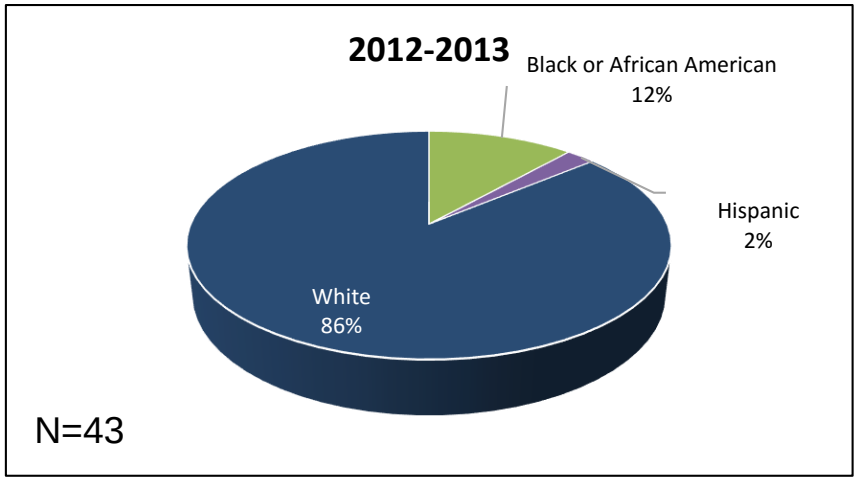
Source: IR Program Assessment Data

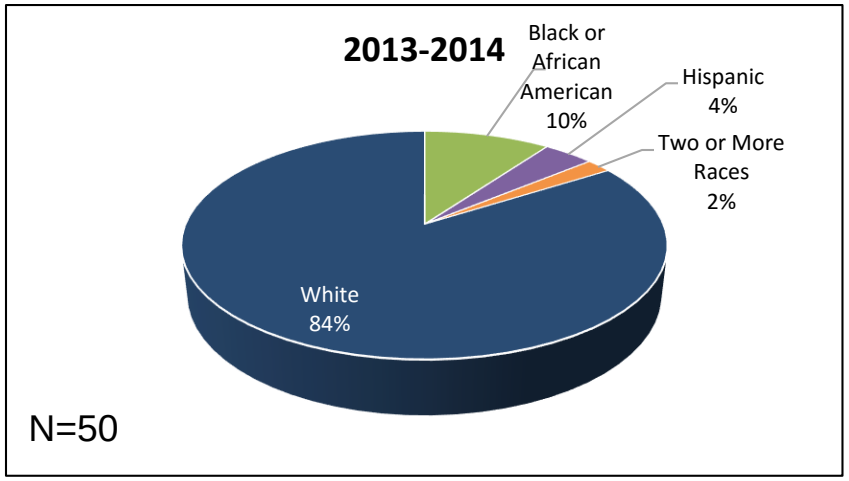


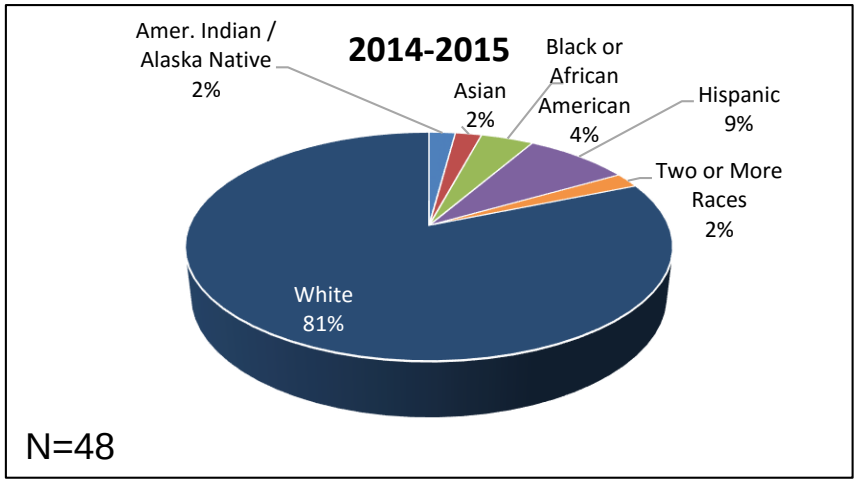

Excludes individuals whose gender is not reported.

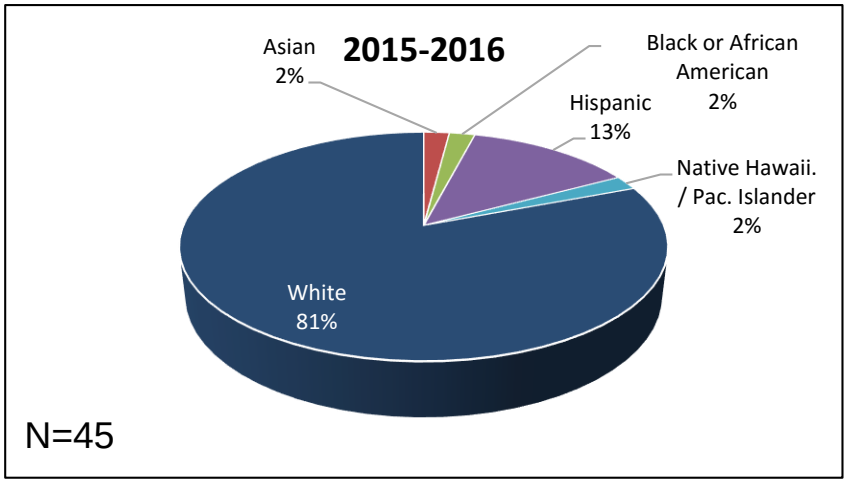
Source: IR Program Assessment Data

# Enrollment by Race/Ethnicity
# 2230 - Environmental Science Tech.



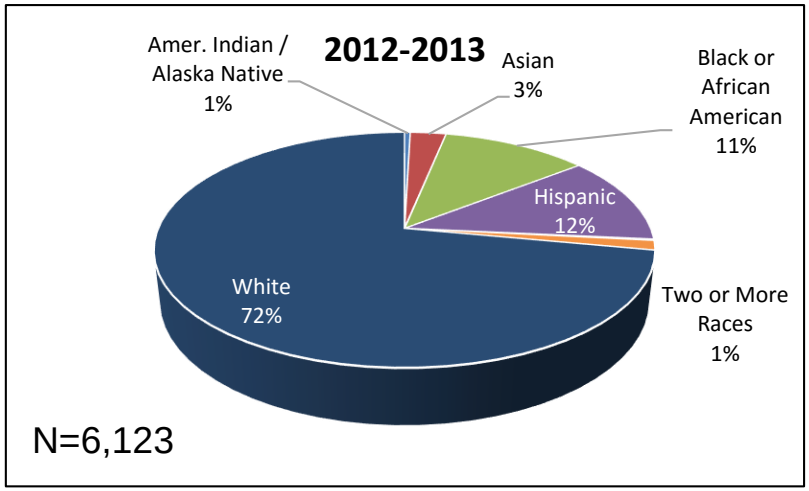



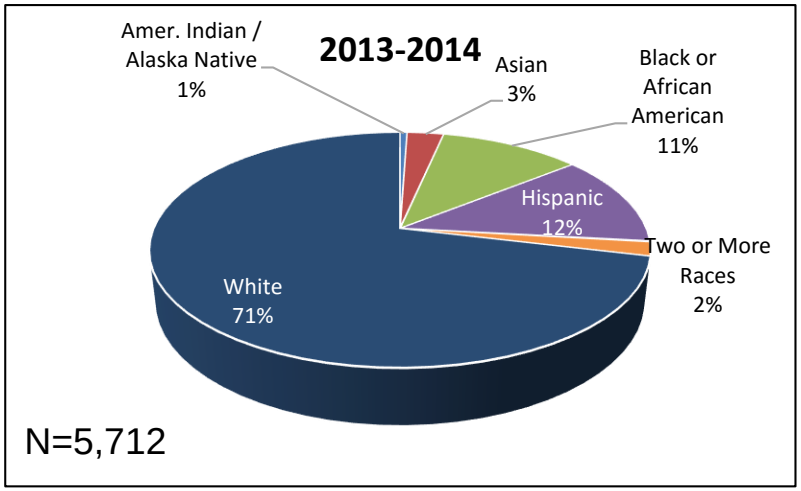

| DSC Averages 2015-2016 | | | | | | |
|---|---|---|---|---|---|---|
| Amer Indian/ Alaska Native | Asian | Black or African Amer | Hispanic | Nat Hawaiian Pacif Islander | 2 or More Races | White |
| **0%** | **2%** | **14%** | **14%** | **0%** | **2%** | **66%** |

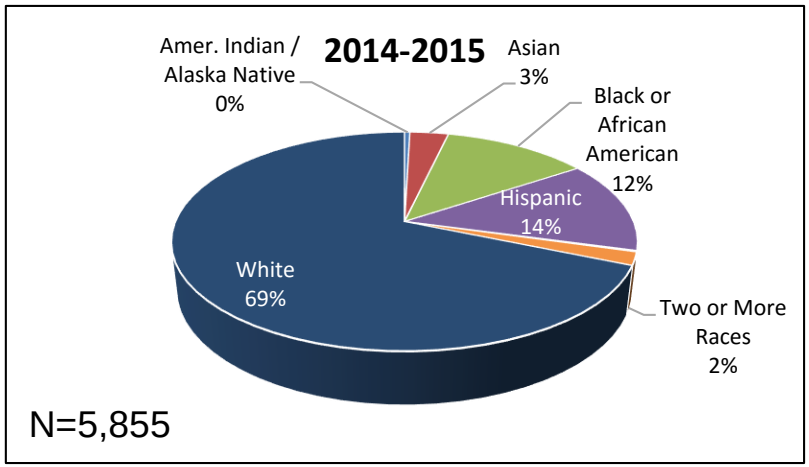
Excludes individuals whose race / ethnicity is not reported.

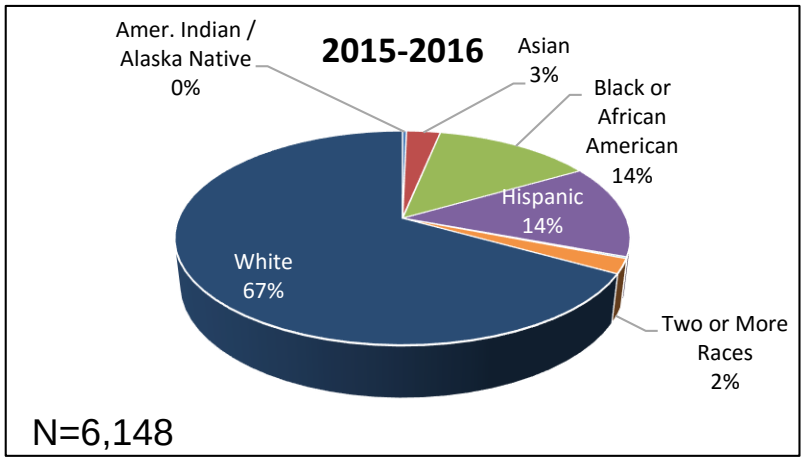
Source: IR Program Assessment Data

# Enrollment by Race/Ethnicity
# School of Biological and Physical Sciences




| DSC Averages 2015-2016 | | | | | | |
|---|---|---|---|---|---|---|
| Amer Indian/ Alaska Native | Asian | Black or African Amer | Hispanic | Nat Hawaiian Pacif Islander | 2 or More Races | White |
| **0%** | **2%** | **14%** | **14%** | **0%** | **2%** | **66%** |

Excludes individuals whose race / ethnicity is not reported.

Source: IR Program Assessment Data