Fall 2017
Core Curriculum Assessment Results

of

Skills 1 – Communication

from the

Science

Core Curricular Area

Assessed Courses

Data for this report was collected from the following Core courses:

ANTH 1415 Physical Anthropology
ASTR 1301/1101 Introduction to Astronomy and Lab
BIOL 1400 Evolutionary and Environmental Biology
BIOL 1401 Science of Biology
BIOL 1433 Essentials of Anatomy and Physiology
BIOL 2401 Microbiology
CHEM 1400 Fundamental Chemistry I
CHEM 1402 General Chemistry I
CHEM 1409 Chemistry and Society
ERSC 1302/1102 Physical Geology and Lab
ERSC 1304/1104 Earth and the Environment and Lab
ERSC 2303/2103 Historical Geology and Lab
PHYS 1321/1121 College Physics I and Lab
PHYS 1322/1122 College Physics II and Lab
PHYS 2321/2121 Physics for Scientists and Engineers I and Lab
PHYS 2322/2122 Physics for Scientists and Engineers II and Lab

The following Core courses did not submit assessment data for this report:

CHEM 1406 General Chemistry for Engineers

Scoring Rubric

A five-point scoring rubric was used for all data reporting. The table below shows the five levels, the scores assigned to each level, and the general guidelines that Core Area Assessment Committees (CAAC) used to score collected artifacts.

Level	Score	"Assessment of this artifact indicates that the student…"
Advanced	4	"... was successful at …
Proficient	3	"... attempted and was usually successful at …
Novice	2	"... attempted but was not always successful at …
Not Met	1	"... made little attempt at …
Absent	0	"... made no attempt at …

Data Interpretation Method

The Results presented in this document are reported by Learning Outcome and by Teaching Modality. The arithmetic mean for each level (Advanced, Proficient, Novice, and Not Met) was calculated based on the total number of artifacts that scored at each level divided by the total number of artifacts scored overall, with the number of Absent level artifacts removed from the total.

$$[Level]\ Mean = \frac{Number\ of\ [Level]\ Artifacts\ Scored}{(Total\ Artifacts\ Scored - Number\ of\ Absent\ Artifacts\ Scored)}$$

The Results for each Learning Outcome and Teaching Modality are presented in tables, pie charts, and radar charts. Total percentages on tables and pie charts sum to 100%, and total values on radar charts sum to 1.0.

Comments

The following comments are specific items noted by the curricular area at the time of data reporting that may affect interpretation of the Results.

1. *The need for better coordination with concurrent instructors was noted. Difficulty with communication meant in some cases that data collection was inconsistent.*

Results

By Learning Outcome

The tables and charts in this section show the number of artifacts scored at each level for each Learning Outcome, regardless of Teaching Modality type. Absent values listed are artifacts that were collected but could not be scored.

Learning Outcome 1

Students will develop an understanding of how to communicate scientific procedures, results from the inquiry and conclusions resulting from applying the scientific method.
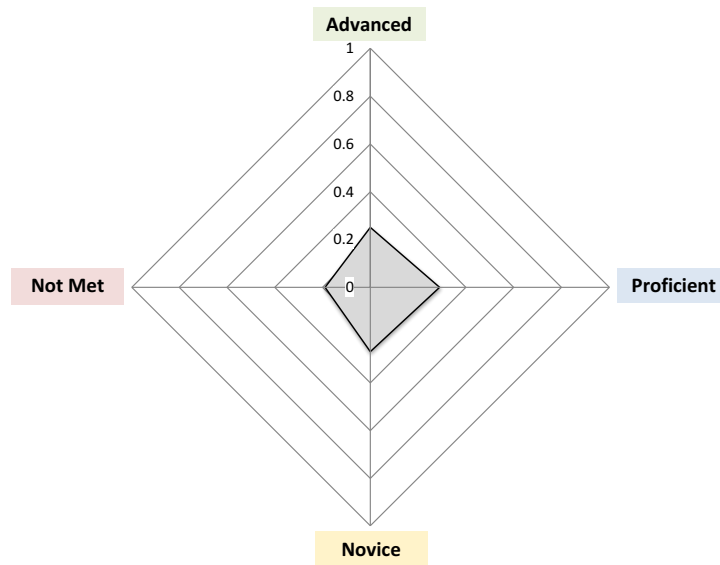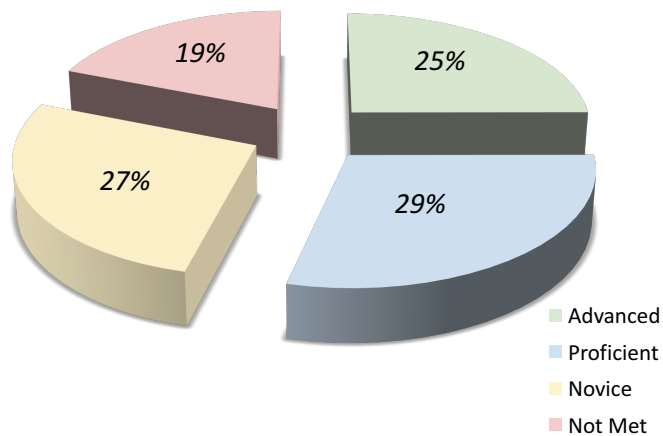
Level	Number of Artifacts	Percentage
Advanced	190	25%
Proficient	220	29%
Novice	206	27%
Not Met	145	19%
Totals	**761**	**100%**

Absent	69

Results

By Learning Outcome

Learning Outcome 1

Students will develop an understanding of how to communicate scientific procedures, results from the inquiry and conclusions resulting from applying the scientific method.

Results

By Teaching Modality

The tables and charts in this section show the number of artifacts scored at each level for each Teaching Modality, regardless of Learning Outcome type. Absent values listed are artifacts that were collected but could not be scored.

Face-to-face

Students were taught in a traditional face-to-face classroom setting.

Level	Number of Artifacts	Percentage
Advanced	131	29%
Proficient	143	31%
Novice	116	26%
Not Met	63	14%
Totals	**453**	**100%**

Absent	67

Online

Students were taught in an online teaching setting.

Level	Number of Artifacts	Percentage
Advanced	50	42%
Proficient	39	33%
Novice	21	18%
Not Met	8	7%
Totals	**118**	**100%**

Absent	2

Concurrent

High school students that are enrolled in UA Little Rock Core courses.

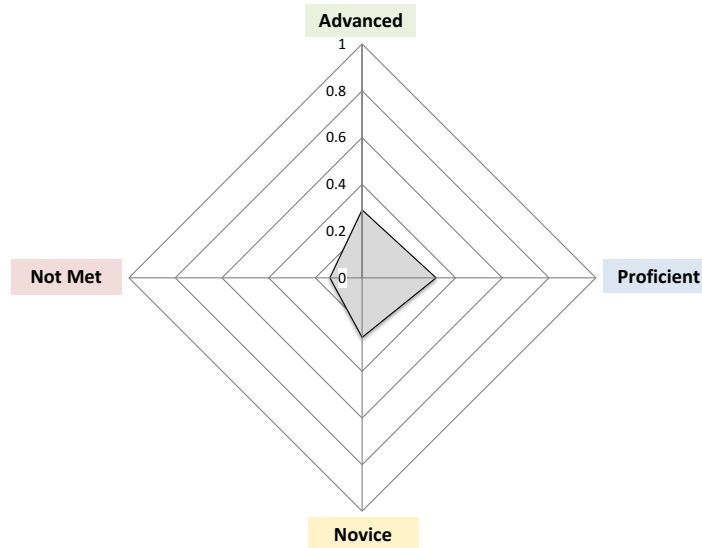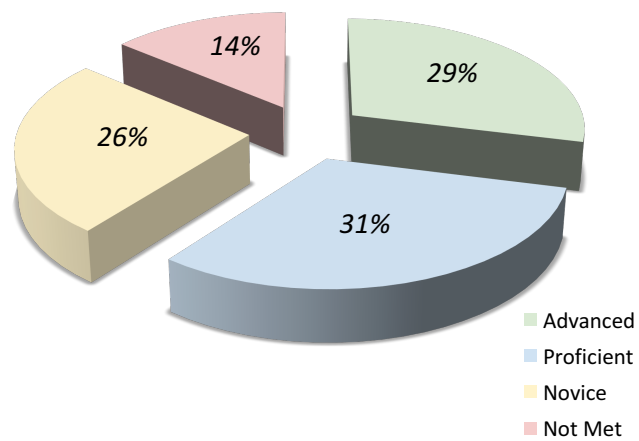| Level	Number of Artifacts	Percentage
Advanced	3	6%
Proficient	17	32%
Novice	16	30%
Not Met	17	32%
Totals	**53**	**100%**

Absent	0

Results

By Teaching Modality

Face-to-face
Students were taught in a traditional face-to-face classroom setting.
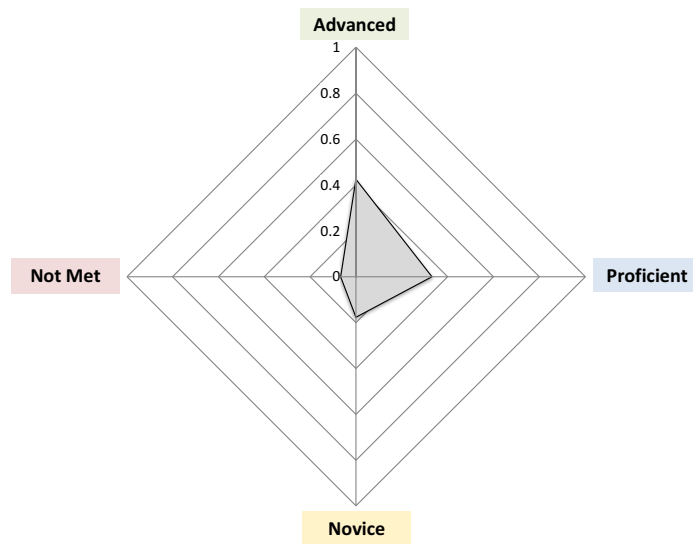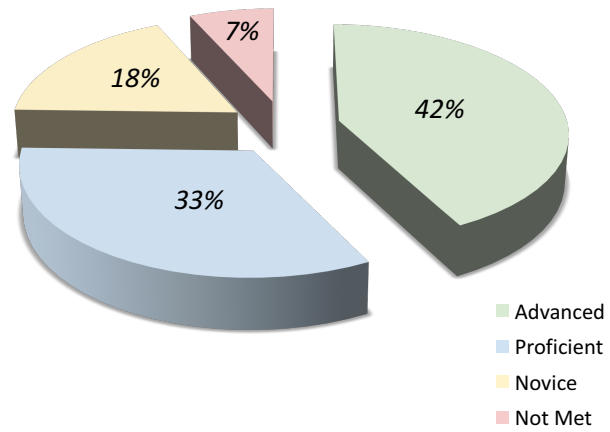
Results

By Teaching Modality

Online
Students were taught in an online teaching setting.

Results

By Teaching Modality

Concurrent
High school students that are enrolled in UA Little Rock Core courses.