

Engineering Physics Program
(Bachelor of Science in Engineering Physics)



at

New Mexico State University

APPENDIX D. INSTITUTIONAL SUMMARY

Appendix D – Institutional Summary

Programs are requested to provide the following information.

The Institution

a. Name and address of the institution

New Mexico State University
Las Cruces, NM 88003-8001
575-646-0111
www.nmsu.edu

b. Name and title of the chief executive officer of the institution

Dr. Garrey Carruthers, Chancellor and President, New Mexico State University*

*: Dr. Carruthers retires on July 1, 2018. The position of Chancellor and President was split, and Dr. Dan E. Arvizu has been appointed as the new Chancellor and Dr. John Floros was appointed as the new President.

c. Name and title of the person submitting the self-study report

Self-Study reports are authored by the respective departments and submitted through the ABET portal by Sonya Cooper, Associate Dean of Academics, *College of Engineering*.

d. Name the organizations by which the institution is now accredited and the dates of the initial and most recent accreditation evaluations.

New Mexico State University (NMSU) has been accredited by the Commission on Higher Education of the North Central Association (NCA) of Colleges and Schools since 1926, except for a brief period in 1940- 1941. Since 1963, the institution has held preliminary to full accreditation status at the doctoral level. At our last general visit was November 2017. On February 20, 2018 NMSU received word from the Higher Learning Commission (HLC) that the Institutional Actions Council of HLC continued the accreditation of NMSU with the next reaffirmation of accreditation in 2027-28. The Council accepted the report of the HLC review team that visited NMSU in November and concluded in a 111-page document that NMSU met every criterion for accreditation with no concerns.

The *College of Engineering* is accredited by:

- ABET Inc., Engineering Technology Accreditation Commission (date of first accreditation: 1968)
- ABET Inc., Engineering Accreditation Commission (date of first accreditation: 1938)

Type of Control

Description of the type of managerial control of the institution, e.g., private-non-profit, private-other, denominational, state, federal, public-other, etc

New Mexico State University is a comprehensive state-funded land-grant institution of higher learning, Overall responsibility for the university resides in an autonomous Board of Regents appointed by the Governor of the state and confirmed by the Senate of the State of New Mexico. The board delegates authority for the internal management of the institution to the NMSU

President. The faculty elects a *Faculty Senate*, which has legislative jurisdiction over policies affecting the academic mission of the university.

New Mexico State University is dedicated to teaching, research, and service at the undergraduate and graduate levels. NMSU is a *NASA Space Grant College*, a *Hispanic-Serving Institution* and is home to the only *Honors College* in *New Mexico*. NMSU provides learning opportunities to a diverse population of students and community members at five campuses, cooperative extension offices located in each of New Mexico's 33 counties, 13 *Research and Science Centers* and through distance education.

Educational Unit

Describe the educational unit in which the program is located including the administrative chain of responsibility from the individual responsible for the program to the chief executive officer of the institution. Include names and titles. An organization chart may be included.

The NMSU *College of Engineering* and the *University Organizational Charts* are provided in Figures D.1 and D.2.

Engineering Physics (EP) is one of the engineering programs in NMSU's *College of Engineering*, but it is run by the *Department of Physics*, which is part of NMSU's *College of Arts & Sciences*. Aside from the *Bachelor of Sciences in Engineering Physics (BS-EP)*, the *Department of Physics* offers graduate (M.S. and Ph.D.) and undergraduate (B.S. and B.A.) degrees in Physics under the administrative control of NMSU's *Graduate School* or the *College of Arts & Sciences*, respectively. Since the BS-EP is an undergraduate engineering degree, it is fully administered by NMSU's *College of Engineering*. The *College of Engineering* oversees the departments and programs listed below, and its *Organizational Chart* of the college is provided in Figure D.1. The *Organizational Chart* of the entire institution is provided in Figure D.2.

Chemical and Materials Engineering Department

Department Head: Dr. David Rockstraw

Civil Engineering Department

Department Head: Dr. David Jauregui

Electrical and Computer Engineering Department

Department Head: Dr. Steve Stochaj (Interim)

Engineering Physics Program, Physics Department

Department Head: Dr. Heinz Nakotte (Interim)

Industrial Engineering Department

Department Head: Dr. Hansuk Sohn (Interim)

Mechanical and Aerospace Engineering Department

Department Head: Dr. Ruey Chen

Figure D.1. College of Engineering Organizational Chart

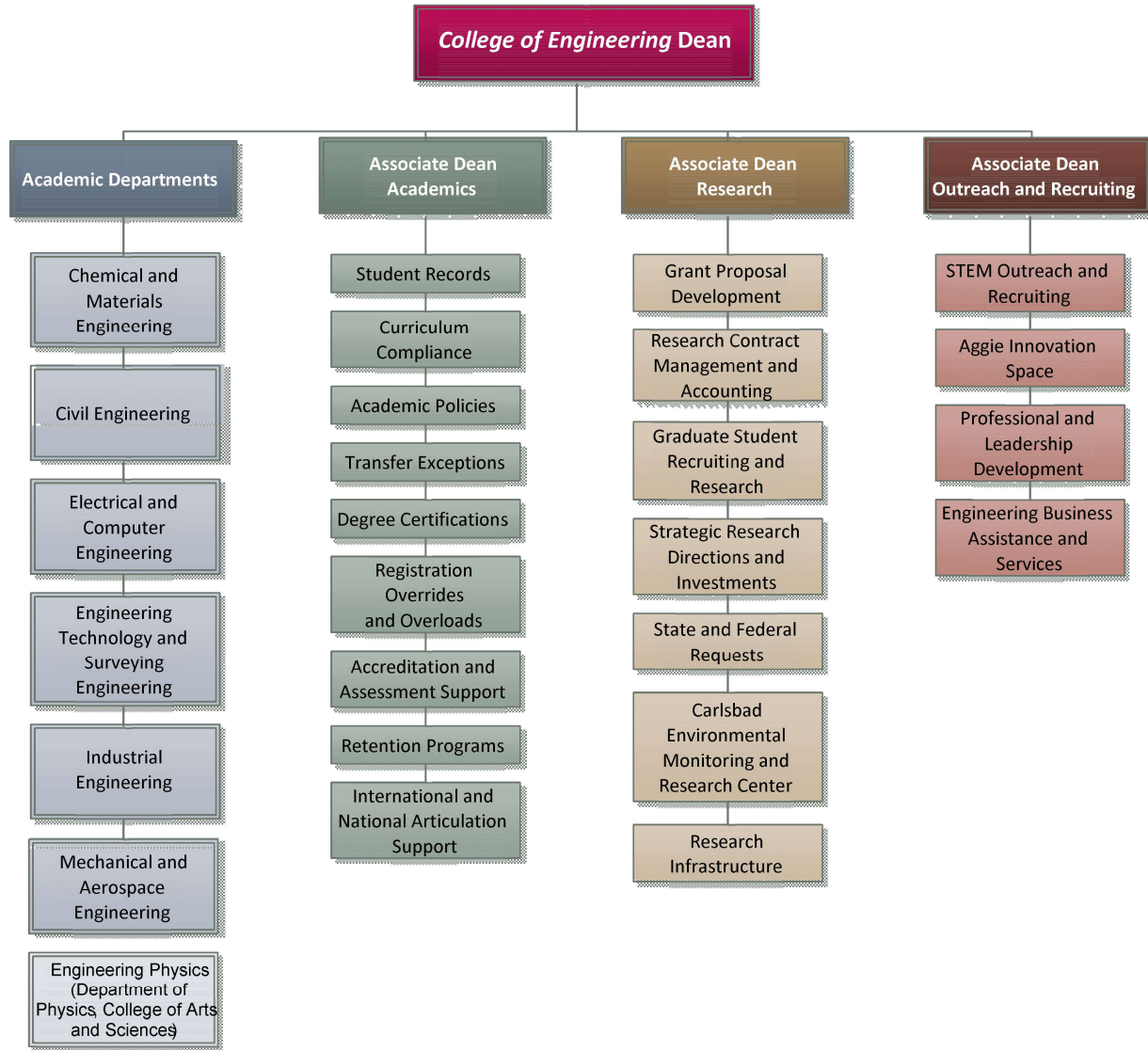
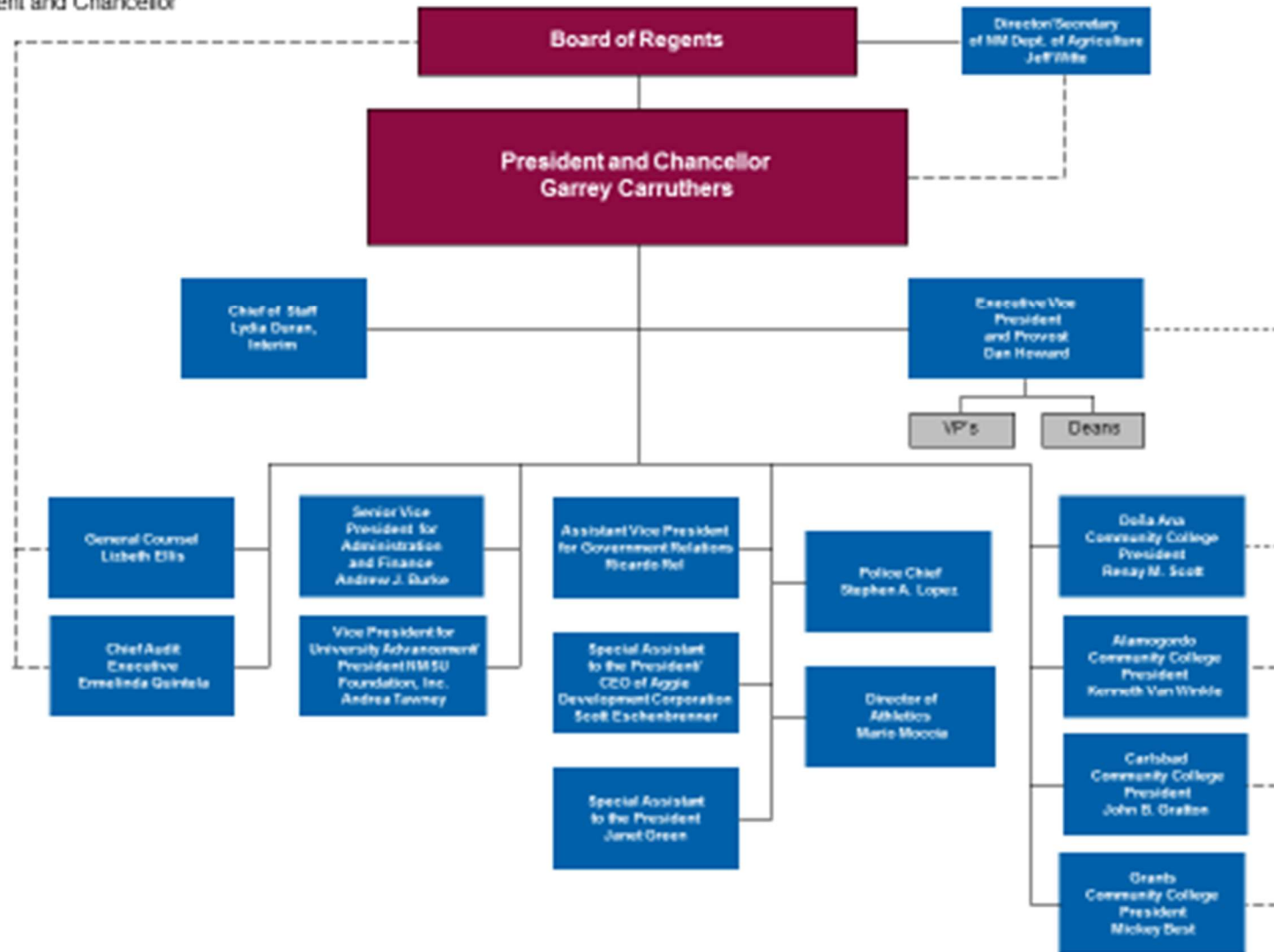


Figure D.2. University Organization Chart

Organizational Chart:
President and Chancellor



Academic Support Units

List the names and titles of the individuals responsible for each of the units that teach courses required by the program being evaluated, e.g., mathematics, physics, etc.

Department of Mathematics

Dr. Joseph Lakey, Academic Department Head

Email: jlakey@nmsu.edu

Phone: (575) 646-3901

Department of Physics

Dr. Heinz Nakotte, Interim Academic Department Head

Email: hnakotte@nmsu.edu

Phone: (575) 646-3831

Department of Chemistry and Biochemistry

Dr. William Quintana, Academic Department Head

Email: wquintan@nmsu.edu

Phone: (575) 646-5877

Department of English

Dr. Lauren Rosenberg, Interim Academic Department Head

Email: laurenr@nmsu.edu

Phone: (575) 646-3931

Department of Communication Studies

Dr. Ken Hacker, Academic Department Head

Email: comstudy@nmsu.edu

Phone: (575) 646-4937

Non-academic Support Units

List the names and titles of the individuals responsible for each of the units that provide non-academic support to the program being evaluated, e.g., library, computing facilities, placement, tutoring, etc.

NMSU Library

Dr. Elizabeth A. Titus, Dean

Email: etitus@nmsu.edu

Phone: (575) 646-1508

Information and Communication Technology

Dr. Norma Grijalva, Chief Information Officer

Email: norma@nmsu.edu

Phone: (575) 646-2026

Student Engagement

Tony Marin, Asst. VP Student Affairs

Email: amarin@nmsu.edu

Phone: (575) 646-7207

Engineering Learning Communities

Elizabeth Howard

Email: ehoward@nmsu.edu

Phone: (575) 646-5894

Credit Unit

It is assumed that one semester or quarter credit normally represents one class hour or three laboratory hours per week. One academic year normally represents at least 28 weeks of classes, exclusive of final examinations. If other standards are used for this program, the differences should be indicated.

New Mexico State University and the College of Engineering use the semester hour as the basic unit of academic credit. A credit hour is defined as 750 minutes of lecture (including exams) or 2,250 minutes of laboratory time. Over the course of a 15-week semester, that translates into 50 lecture minutes per week per credit hour. Laboratories meet for 2½ hours per week per credit hour. A typical four credit class consists of one 2½ hour laboratory and either three 50 or two 75-minute lectures. The last week of each semester is dedicated to final exams, with each course typically meeting once for a single 150-minute test. One academic year, consisting of two semesters, provides 28 weeks of instruction, exclusive of final examinations.

Tables

Complete the following tables for the program undergoing evaluation.

Report data for the program being evaluated.

1. Data on this table should be for the fall term immediately preceding the visit. Updated tables for the fall term when the ABET team is visiting are to be prepared and presented to the team when they arrive.; 2. Persons holding joint administrative/faculty positions or other combined assignments should be allocated to each category according to the fraction of the appointment assigned to that category; 3. For faculty members, 1 FTE equals what your institution defines as a full-time load; 4. For student teaching assistants, 1 FTE equals 20 hours per week of work (or service). For undergraduate and graduate students, 1 FTE equals 15 semester credit-hours (or 24 quarter credit-hours) per term of institutional course work, meaning all courses — science, humanities and social sciences, etc.; 5. Specify any other category considered appropriate, or leave blank

Table D.1.a. Engineering Physics Enrollment

Semester		Undergraduate					Graduate Total
		Freshman	Sophomore	Junior	Senior	Total	
Fall 2013	FT	3	7	10	19	39	.
	PT	.	.	2	.	2	.
Fall 2014	FT	6	4	7	23	40	.
	PT	.	.	.	1	1	.
Fall 2015	FT	12	10	6	17	45	.
	PT	.	.	.	5	5	.
Fall 2016	FT	9	11	6	15	41	.
	PT	.	.	.	2	2	.
Fall 2017	FT	7	5	9	12	33	.
	PT	.	2	.	5	7	.

Table D.1.b. Engineering Physics Degrees Awarded

Academic Year	Degree Level				Total
	Associate	Bachelor	Master	Doctorate	
2012-13	.	5	.	.	5
2013-14	.	4	.	.	4
2014-15	.	9	.	.	9
2015-16	.	7	.	.	7
2016-17	.	6	.	.	6

Table D.2. Personnel for Engineering Physics

Year ¹ : Fall 2017	Head Count		FTE ²
	FT	PT	
<i>Administrative</i> ²		1	0.5
<i>Faculty (tenure-track)</i> ³	13		13
<i>Other Faculty (excluding student assistants)</i>		2	1
<i>Student Teaching Assistants</i> ⁴	12	4	14
<i>Technicians/Specialists</i>	1	1	.5
<i>Office/Clerical Employees</i>	1	2	2
<i>Others</i> ⁵	4		4

Notes: Administrative: Department Head with 50% teaching load; Graduate teaching and research assistants work 20 hours per week; Specialist: 1 FTE lab coordinator/instructor (MS in Physics); Specialist: 0.5 FTE (graduate student) for IT support (20 hours per week); Others: Research faculty, postdocs, technicians not paid by departmental I&G fun

Letter of Compliance