

# Department of Industrial Engineering

## 2019/2020 Program Checklist

ID No. \_\_\_\_\_

Name \_\_\_\_\_

Expected Graduation \_\_\_\_\_

Course	Comp	Enr	Need	Course	Comp	Enr	Need
<b>Math<sup>1,2</sup> (17)</b>				<b>SCIENCE<sup>1,2</sup> (15)</b>			
Math 191 _____ 4	_____	_____	_____	Chem 111 _____ 4	_____	_____	_____
Math 192 _____ 4	_____	_____	_____	Phys 215 _____ 3	_____	_____	_____
Lin. Alg. <sup>3</sup> _____ 3	_____	_____	_____	Phys 215L _____ 1	_____	_____	_____
Math 291 _____ 3	_____	_____	_____	Chem or Phys <sup>5</sup> _____ 4	_____	_____	_____
Math 392 _____ 3	_____	_____	_____	Science _____	_____	_____	_____
				Elective <sup>5</sup> _____ 3	_____	_____	_____
<b>Common Core<sup>2</sup> (25)</b> (Except as noted below, refer to "General Education Common Core in the appropriate Undergraduate Catalog for a list of approved electives.)							
Engl 111G Area I _____ 4	_____	_____	_____	Econ 251 or 252 <sup>4</sup> _____ 3	_____	_____	_____
Comm Writ. Area I _____ 3	_____	_____	_____	Area V _____ 3	_____	_____	_____
Comm Oral, Area I _____ 3	_____	_____	_____	Area VI _____ 3	_____	_____	_____
				VWW Elec. _____ 3	_____	_____	_____
				VWW Elec. _____ 3	_____	_____	_____
<b>Pre-Engineering (11)</b>							
Engr 100 _____ 3	_____	_____	_____	IE 151 _____ 3	_____	_____	_____
ME 159 _____ 2	_____	_____	_____	IE 217 _____ 2	_____	_____	_____
				IE 217 L _____ 1	_____	_____	_____
<b>Engineering Topics (52)</b> (Refer to back of form for approved Engineering Electives)							
CE 233 _____ 3	_____	_____	_____	IE 413 _____ 3	_____	_____	_____
or ME 236 _____ 3	_____	_____	_____	IE 423 _____ 3	_____	_____	_____
ChE 361 _____ 3	_____	_____	_____	IE 424 _____ 3	_____	_____	_____
Eng Sci <sup>7</sup> _____ 3	_____	_____	_____	IE 451 _____ 3	_____	_____	_____
IE 311 _____ 3	_____	_____	_____	IE 460 _____ 3	_____	_____	_____
IE 316 _____ 3	_____	_____	_____	IE 467 _____ 4	_____	_____	_____
IE 351 _____ 3	_____	_____	_____	IE 478 _____ 3	_____	_____	_____
IE 365 _____ 3	_____	_____	_____	Engr 401 _____ 3	_____	_____	_____
Engr. Elec. <sup>6</sup> _____ 3	_____	_____	_____	Engr 402 _____ 3	_____	_____	_____

### PRELIMINARY APPROVAL

Completed \_\_\_\_\_  
 Enrolled \_\_\_\_\_  
 Needed \_\_\_\_\_  
 Total \_\_\_\_\_ 120

Department Head \_\_\_\_\_ Date \_\_\_\_\_

Dean \_\_\_\_\_  
 Date \_\_\_\_\_

### FINAL APPROVAL

Completed \_\_\_\_\_  
 Enrolled \_\_\_\_\_  
 Needed \_\_\_\_\_  
 Total \_\_\_\_\_

Department Head \_\_\_\_\_ Date \_\_\_\_\_

Dean \_\_\_\_\_  
 Date \_\_\_\_\_

## NOTES

1. As listed on the reverse side, the Math and Science blocks satisfy the minimum requirement of 30 hours of math and basic science.
2. As listed on the reverse side, the Math, Science, and Common Core Blocks satisfy general education requirements.
3. Math 280 or 480 (Math 480 Recommended by Math Department).
4. Area IV, Econ 251 or 252 Required
5. Approved Science Electives:
  - a) Every student must satisfactorily complete at least one two-course sequence in a laboratory science, either Physics or Chemistry. Select either Chem 112 or Phys 216/216L for 4 credits
  - b) Bio 211G, Geol111G. Phys 217 or other approved science course.
6. Engineering Electives are to be selected with a departmental adviser. Recommend the 3 credits must be upper division
7. Engineering Science Electives include ME 234, ME 237, ME 240, CE 234 and CE 301. Choose electives with a departmental adviser.

## CAUTIONS

- \_ A student must earn (or transfer) a grade of at least "C" in any math, basic science, pre-engineering, or engineering course that is a prerequisite for another required or elective course before attempting the subsequent course.
- \_ With few exceptions, an engineering student must earn (or transfer) a grade of at least "C" in all required and most elective courses. (See catalog for details).
- \_ Select electives to insure you meet the minimum requirement of 48 credits of upper division classes.
- \_ The stated program meets all engineering, general education, and departmental requirements. Any departure from that plan must meet all minimal General Education, Engineering College, and Industrial Engineering requirements, as well as being approved by the Industrial Engineering Department Head.
- \_ A student must meet residency requirement, i.e., at least 30 of the last 36 degree credits must be completed at NMSU.