Cal Poly SLO Engineering - Lower Division Major Preparation

2005-2007 Catalog Winter 2006, Summer 2006, Fall, 2006, Winter 2007 Applicants

See the Cal Poly Transfer Guide for more and Important Information. *Courses listed below are courses this major is looking for in an applicant. Completing the maximum number of units in each course area does not guarantee admission, but does help maximize your opportunities for selection.* **Courses in bold *are required for minimum point consideration and must be completed by the term of transfer to Cal Poly or you will receive deficit points within the selection process*.** *Fall quarter applicants must complete units by the preceding Spring term, not Summer.(English, Speech, Calculus and Differential Equations) must be completed with a grade of C or better, by the term of transfer. "*

For Major Preparation and General Education	Semester Units
[Area A2 - English Composition]	**3**
Area A3 - Critical Thinking	3
[Area A1 - Speech Communication]– COMM 1 or 2 (or 10)	**3**
Physics (see grid)– has a prerequisite of Physics 11 and Math 5A	**9 req'd**/12 desired
Chemistry (**see grid**)	**4 req'd**/5 desired
[Analytical Geom/Calculus/differential equations] (**see grid**)	**12 req'd**/15 desired
Statics/materials engineering (see grid)	**3 req'd**/6 desired
Computer programming/graphics (see grid)	**3 req'd**/ 6 desired
Electrical circuits (**see grid**)	**3**
Area B2 - Life Science (no lab required)	3
Area C1 – Fine/Performing Arts	3
Area C2 - Philosophy -PHILO 10	3
Area C3 - Literature	3
Area D1 – Any Course	3
Area D2 - Political Science (PS 1 or 5)	3
Area D3 - US History	3
Area E – Any course	3

The admissions process also looks at GPA and work experience/extra curricular activities when calculating points.

	Physics	Chemistry	Calculus/ Diff. Equations+	Statics	Comp Prog/Other	Electrical Circuits	Materials
Aero	4ABC	CHEM 1A	MATH 5ABC,6,7+	ENGR 35	*ENGR 25+26*	ENGR 15	ENGR 45
***Architectural**	4ABC	CHEM 1A	MATH 5ABC,6,7+	ENGR 35	ENGR 1A CS 11	ENGR 15	ETECH 60 GEOL 10
Biomedical	4ABC	CHEM 1A, BIO 1A	MATH 5ABC,6,7+	ENGR 35	CS 11	ENGR 15	ENGR 45
Civil	4ABC	CHEM 1AB**	MATH 5ABC,6,7+	ENGR 35	[ENGR 25] [CS 11]	ENGR 15	ENGR 45 GEOL 10
Computer	4ABCD	CHEM 1A	MATH 5ABC,6, 7+	ENGR 35	CS 11, 21,23	ENGR 15	
Electrical	4ABCD	CHEM 1A	MATH 5ABC,6,7+		CS 11	ENGR 15	
Environ	4ABC	CHEM 1AB	MATH 5ABC,6,7+	ENGR 35	CS 11	ENGR 15	
Gen. Eng.	4ABC	CHEM 1AB**	MATH 5ABC,6,7+	ENGR 35	CS 11	ENGR 15	ENGR 45
Industrial	4ABC	CHEM 1A	MATH 5ABC,6, 7+	ENGR 35	*ENGR 25+26*	ENGR 15	
Manuf.	4ABC	CHEM 1AB**	MATH 5ABC,6, 7+	ENGR 35		ENGR 15	ENGR 45
Materials	4ABC	CHEM 1AB	MATH 5ABC,6, 7+	ENGR 35		ENGR 15	ENGR 45
Mech.	4ABC	CHEM 1AB**	MATH 5ABC,6,7+	ENGR 35	ENGR 25+26	ENGR 15	ENGR 45
Software	4ABC OR	CHEM 1AB**	MATH 5ABC,6,7+		CS 11, 19 or 20J, 21, 23		

*Architectural Engineering does NOT require Statics/Materials Eng. And Electrical Circuits for minimum point consideration for admission.
+Math 6 and 7=CalPoly Math 244. For students transferring from Cabrillo, Cal Poly recommends they take Math 6 + 7 to receive credit for Math 244. Cabrillo no longer teaches Math 14 Fortran. Cal Poly students have the option to take Fortran or C++ (CS 11) we recommend students take CS 11.
**Re: Chem 1B: Since our CHEM and PHYS classes are more units than theirs, Cabrillo transfer student can use a combination of extra CHEM and PHYS units to meet the requirement for CHEM 125 (CHEM 1B) in these highlighted majors. *ENGR 25+26 recommended by Cabrillo Eng. Faculty for IE & AE majors*