2009-11 Cal Poly Catalog

Dairy Science Department

BS DAIRY SCIENCE

- 60 units upper division
- GWR
- 2.0 GPA
- USCP

* = Required in Support; also satisfies GE
Note: No major or support courses may be taken as credit/no credit.

MAJOR COURSES

DSCI 100 Enterprise Project or
DSCI 339 Internship in Dairy Science .............. 2
DSCI 101 Dairy Feeds and Feeding ................. 4
DSCI 121 Elements of Dairying or
DSCI 230 General Dairy Husbandry ............... 4
DSCI 123 Dairy Science Orientation .............. 1
DSCI 134 Intro. to Dairy Products Tech (4) or
DSCI 231 General Dairy Manufacturing (3) and
DSCI 232 Gen Dairy Manufacturing Lab (1) ....... 4
DSCI 202 Dairy Promotion and Marketing ........ 4
DSCI 223 Frozen Dairy Foods or
DSCI 241 Dairy Cattle Selection, Breeds, Fitting
and Showing .................................. 4
DSCI 233 Milk Processing and Inspection ......... 4
DSCI 234 Dairy Foods Evaluation ................. 2
DSCI 301 Dairy Cattle Nutrition or
DSCI 401 Physical and Chemical Properties of
Dairy Products .................................. 4
DSCI 321 Lactation Physiology or
DSCI 444 Dairy Microbiology ..................... 4
DSCI 330 Artificial Insemination and Embryo
Biotechnology or DSCI 434 Cheese and
Fermented Dairy Foods .......................... 4

DSCI 333 Dairy Cattle Management, Safety and
Animal Well-Being (4) or DSCI 402 Quality
Assurance and Control of Dairy Products (4) or
DSCI 412 Dairy Farm Consultation (4) or ASCI
415 HACCP for Meat and Poultry Operations (3)
(6/15/12) ....................................... 4

DSCI 422 Breeding and Genetics of Dairy Cattle or
DSCI 435 Concentration/Fractionation and
Butter Technology ................................ 4
DSCI 432 Advanced Dairy Herd Management or
DSCI 433 Dairy Plant Mgt. & Equipment ........ 4
DSCI 461 Senior Project ................................ 3
DSCI 463 Undergraduate Seminar .................. 2

SUPPORT COURSES

* = Satisfies General Education requirement
MCRO 221 Microbiology (B2 & B4)* ............... 4
CHEM 111 Survey of Chemistry or CHEM 127
  General Chemistry (B3&B4)* .................. 5/4
CHEM 312/BIO 111/BIO 115/BIO 161 (10/22/09) 5/4
MATH 118 Pre-Calculus Algebra (B1)* .......... 4
  (MATH 116 & I17 substitute)

1. Approved electives. .................................................. 41
   Select 41 units from the following. At least 18 units
   must be 300-400 level:
   AGB 212, 214, 301, 310, 321, 401; (10/28/13)
   AGED 102, 330, 404;
   ASCI 112, 211, 216, 221, 226, 304, 311, 351,
   366, 405, 420;
   ASCI/VS 229, 310, 312, 438, 440;
   BIO 162, 303;
   BRAE 121, 141;
   BUS 212;
   CHEM 128, 129, 216, 217, 312, 313, 316, 317,
   371; (7/12/12)
   COMS 301;
   CRSC 123;
   Any DSCI course;
   EHS 230;
   FRSC 230;
   FSN 125, 230, 270, 275, 330, 335;
   JOUR 203, 205;
   MCRO 342, 421;
   NR 141;
   PHYS 121, 122;
   STAT 130, 218, 313;
   VGSC 230;
   Any courses used in the following minors:
   Agribusiness
   Agricultural Communication
   Crop Science
   Equine Science
   Food Science
   Poultry Management
   Soil Science

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GENERAL EDUCATION (GE)

72 units required, 12 of which are specified in Support.
See page 50 for complete GE course listing.
Minimum of 12 units required at the 300 level.

Area A Communication (12 units)

A1 Expository Writing ................................. 4
A2 Oral Communication ............................... 4
A3 Reasoning, Argumentation, and Writing........ 4

Area B Science and Mathematics (4 units)

B1 Mathematics/Statistics * 4 units in Support plus 4
B2 Life Science * 4 units in Support .................. 0
B3 Physical Science * 4 units in Support .......... 0
B4 One lab taken with either a B2 or B3 course

1 Consultation with advisor is recommended prior to selecting
   approved electives; bear in mind your selections may impact
   pursuit of post-baccalaureate studies and/or goals.

2 If ASCI 415 (3) is taken to meet the requirement, an additional
   unit of 300-400 level approved electives is required as well.
Area C  Arts and Humanities (20 units)
   C1 Literature ........................................... 4
   C2 Philosophy .......................................... 4
   C3 Fine/Performing Arts  ......................... 4
   C4 Upper-division elective ...................... 4
   Area C elective (Choose one course from C1-C4) 4

Area D/E Society and the Individual (20 units)
   D1 The American Experience (40404) ............. 4
   D2 Political Economy ................................ 4
   D3 Comparative Social Institutions .............. 4
   D4 Self Development (CSU Area E) ............. 4
   D5 Upper-division elective ...................... 4

Area F Technology Elective (upper division)
   (4 units) ............................................. 4

   60

FREE ELECTIVES ........................................ 3/5

        180