2022-2023 Guide to Restricted Electives for the Global Disease Biology major

The Restricted Electives (REs) are a set of upper-division courses with a combined minimum of 25 units that you, as a Global Disease Biology (GDB) student, get to pick and choose. That is why they are called ‘Electives’. The Restricted Electives (REs) give you an opportunity to personalize your GDB experience with classes that provide depth and breadth in one or more focused areas within the field of health and disease that you are most passionate about.

WHAT’S IN THIS GUIDE?

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1. HOW TO PICK YOUR RESTRICTED ELECTIVES?

First, you should know that there are rules on what courses can or cannot be taken as GDB Restricted Electives. That is why they are called ‘Restricted’. These rules are described in this RE Guide, so read it carefully, and all the way through. Within the boundaries of these rules, ask yourself the following questions:

- What courses best fit your interests as a GDB student?
- What courses will best prepare you for a career that you have in mind for yourself after you graduate from UC Davis with a Bachelor of Science degree in GDB?
- What courses or combination of courses would you like to highlight in your application to your future employer, professional school, or graduate school?
- What courses best complement your GDB practicum project?

Thinking about these questions will help you articulate and rationalize your choice of Restricted Electives. You should be able to comfortably and confidently explain your choice of GDB Restricted Electives in the context of your short- and long-term professional and educational goals. These explanations will be included in your official RE Form, which you will submit when you take GDB 187. Remember, a carefully-chosen, well-balanced set of Restricted Electives can enhance the appeal of your career portfolio.

2. WHEN TO START PICKING YOUR RESTRICTED ELECTIVES?

We recommend that you start thinking about Restricted Electives as soon as you enter the GDB major. Browse the UC Davis General Catalog (catalog.ucdavis.edu/courses-subject-code/) for courses that look interesting to you. Talk to fellow GDB students, GDB peer advisors and GDB staff advisors. Contact course instructors and ask if they would be willing to send you their syllabus so you can learn more
about course content. Bring up the topic of Restricted Electives in discussions you might have with GDB staff, instructor, or lead faculty advisor (formerly known as 'master advisor'): based on your description of post-GDB career goals, they may advise you to take a class in advanced statistics, human anatomy, or scientific writing, for example. Even if they do not know about specific classes, they can guide you in the right direction. Start a draft list of Restricted Electives and update this list as you learn about new classes and talk to people. You may use the RE Worksheet for this purpose (see Appendix C).

The time to formalize your choice of GDB Restricted Electives is the quarter in which you take GDB 187. As part of this class, you will finalize and submit your list of Restricted Electives, together with a time schedule for when you plan to take (or are already taking, or have taken) these courses and a concise justification for your selection of courses. Your submission will be reviewed by the GDB Advising office towards the end of your GDB 187 quarter. It will be assessed for compliance with the rules described below, and for the strength and logic of your justification. If there are problems with any of these, you will have an opportunity to submit a revised list of Restricted Electives. It is important that you get your list reviewed by your GDB 187 final exam date: without review, there can be no approval, and without approval, you may receive an Incomplete for GDB 187. Any changes to your list of Restricted Electives after it is approved in GDB 187 are subject to review. For this, you must send an updated RE Approval Form to the GDB Advising team (gdb-advise@ucdavis.edu). It is the students’ responsibility to check their REs for potential conflicts in scheduling.

3. RULES AND RESTRICTIONS ON GDB RESTRICTED ELECTIVES

The rules on what courses may be taken as GDB Restricted Electives are explained below; make sure that you familiarize yourself with these rules. Also, be aware that these rules are subject to change. At the start of each academic year, GDB students will have access to an updated version of this ‘Guide to GDB Restricted Electives’ (also known as the ‘RE Guide’). It will be distributed in certain courses (i.e. GDB 90), available for download on our website (gdb.ucdavis.edu/important-documents), and sent to you by email from the GDB Advising team. Very important to understand is that even if you follow all the rules below, your submitted list of Restricted Electives may not be approved, for example, if there is no clear justification or the courses are disconnected. Because the decision to approve Restricted Electives is based on your list of REs as a whole, GDB advising staff may not respond to questions regarding whether or not an individual class is eligible as a Restricted Elective.

Courses pre-approved as eligible: Appendix A is a list of upper-division courses (100-199) that appear in the UC Davis General Catalog (ucdavis.pubs.curricunet.com/Catalog/home) and are pre-approved as eligible for Restricted Electives. You do not need approval from the GDB Advising office to include any of these courses as GDB Restricted Electives. However, opting for P/NP grading on any one of these courses disqualifies them as GDB Restricted Electives. Appendix A is subject to change: The most current version of Appendix A can be found in the most current version of the RE Guide. It is important to note that students are not restricted to choose only courses listed in Appendix A. It lists classes that have been popular RE choices for previous GDB students. Students are welcome to personalize their RE list.

There are reasons why certain classes cannot be taken as REs, and that we allow certain exceptions, as explained below. Be sure to read the VERY IMPORTANT notice that immediately follows this list of reasons and exceptions.
RULES & EXCEPTIONS FOR RESTRICTED ELECTIVES

1. Lower Division Course (0-99)
   Exception #1: You are allowed to include up to 3 units of lower-division courses. These courses must be taken for a letter grade. This means that courses that are listed as ‘P/NP only’ are not eligible, and neither are courses that are letter-graded but you opted for ‘P/np’ grading. Exception #1 allows you to include as Restricted Elective a letter-graded lower-division course that is a prerequisite for one of your upper-division Restricted Electives.

2. Global Health Internship
   Exception #2: You may list one of these Global Health Internships Abroad as Restricted Electives (4 units for EAP 192 and 2 units for UWP198). These internships are graded P/np. Students must contact GDB Advising office prior to applying or enrolling in one of these internships and discuss impacts on course schedule.

3. Variable Unit Upper Division (190-199)
   Exception #3: Up to 3 units are allowed, but they must be health/disease-related and you must provide a strong justification for the units that you picked. Courses may be letter-graded or graded as P/np. This can include research units ending in 192 or 199 if the research is related to your practicum project or is providing you with research skills you can use in future endeavors.

4. Upper Division Lab Course (ends in 'L')
   Exception #4: You are allowed up to 6 units of laboratory courses, but they have to be letter-graded. Lab courses that are graded P/np are not eligible as Restricted Elective.

5. Upper Division Offered As P/np
   Exception #5: You are allowed up to 1 unit of an upper-division course that is offered P/np only and is not a variable-unit or laboratory course. This exception allows you to take a class like IDI 141: Infectious Diseases or PH 190: Topics in Public Health.

6. Graduate Course (200-above)
   Exception #6: You are allowed up to 3 units, but the course(s) must show a letter grade (i.e. not allowed are courses that are ‘P/np only’ or courses that are letter-graded but taken P/np).

7. Course Not Offered At UC Davis
   Exception #7: You may petition to include up to 8 units of your course work at a higher-education institution other than UC Davis. You will need to provide the GDB Advising office with details on the course (institution, syllabus, grading) and identify an upper-division course in the UC Davis General Catalog or Course Supplement for which the non-UC Davis course would be an appropriate substitute. The responsibility for building the case in favor of allowing a non-UC Davis course as a Restricted Elective lies with the student; the GDB Advising office does not have the time or resources to do this for you. Approval of your petition by GDB is not guaranteed, and you may need additional approval at the University and College level. Plan ahead if you are interested in pursuing this exception.

8. Course listed in Appendix B are INELIGIBLE
   No exceptions. Appendix B includes GDB core courses, discussion sections (courses that end in ‘D’), and EAP192/UWP198 internships that are not Global Health internships, among others. Appendix B is subject to change: courses listed in the appendix may be added or removed. The most current version of Appendix B can be found in the most current version of the RE Guide sent out to GDB students.

9. Letter-Graded, Upper Division Course
   If you choose to include on your RE list a course that is a letter-graded, upper-division course that appears in the UC Davis General Catalog or Course Supplement, that is not listed in Appendix B, and to which Reasons #3-5, you will need to include a written justification for why you think this course should be allowed as a Restricted Elective. If approved, the course will be added to Appendix A; if not, it will go on Appendix B.

GDB Advising Center - gdb.ucdavis.edu
VERY IMPORTANT: Some additional RE rules

a) Your list of Restricted Electives may exceed 25 units, but the total number of units added as Restricted Electives under Exceptions #1 through 6 may not exceed 9 units. For example, you may not list two 2-unit variable-unit courses AND a 3-unit laboratory course AND a 4-unit graduate course, as that totals (2x2)+3+4=11 units, which exceeds 9 units.

b) In the list of your Restricted Electives, the total number of units from P/NP courses may not be greater than 8.

c) The number of courses on the list of Restricted Electives should be 5 or more.

d) Your choice of Restricted Electives should not only pass the rules that we outlined in this GDB-RE document, but should also comply with those of the College of Agricultural and Environmental Sciences as they pertain to all of your course work (caes.ucdavis.edu/students/advising/academic-planning/bachelors-degree-requirements).

e) We encourage students to take advantage of Exceptions #2-4 because they represent opportunities for you to get hands-on lab and/or field experience in your area of interest.

f) Transferred courses from Community Colleges are considered lower division and can only be counted under Exception #1.

g) Prerequisites for any of the courses that you list as Restricted Elective should be noted carefully; the responsibility for meeting these requirements lies with you as the GDB student.

h) If you are minoring in another discipline, be aware that only one course (including ALL GDB major requirements) is allowed to overlap between major and minor requirements.

i) Keep in mind, just because a student had courses approved that are not listed in Appendix A, does not mean that they are automatically approved for other students. Each student must have their own list of approved Restricted Electives on file with the Advising Office by the end of the quarter that they take GDB 187.
Appendix A

The following courses are eligible as GDB Restricted Electives. This Appendix A is subject to change: courses and exceptions may be added or removed. The most current version of Appendix A can be found in the most current version of the RE Guide sent out to GDB students.

ANT 121  Medical Anthropology  EVE 104  Community Ecology  PLB 111  Plant Physiology
ANT 129  Global Health & Medicine  EVE 115  Marine Ecology  PLP 100*  Plant Pathogen Biology
ANT 130A  Cultural Dim. of Globalization  EVE 117  Plant Ecology  PLP 120*  Intro Plant Path
ANT 139A  Race, Class, Gender Systems  EVE 120  Global Change Ecology  PLP 123  Plant-Virus-Vector Interactions
ANT 151  Primate Evolution  EVE 131  Human Genet Var Evol  PLP 130*  Fungal Biology & Disease
ARE 112  Organization Management  EVE 181  Animal-Plant Interaction  PLP 140  Ag Biotech Public Policy
ARE 147  Res/Env Policy Analysis  EXB 120  Sports in Amer Society  PLP 148  Introductory Mycology
ASA 132  Health Issues of Asian Amer.  FST 104  Food Microbiology  PLS 116  Plant Morphology & Evolution
BIM 152  Molecular Control of Biosys.  FST 128  Food Toxicology  PLS 144  Trees and Forests
BIS 104  Cell Biology  GDB 103*  The Microbiome  PLS 147  California Plant Communities
BIS 181  Comparative Genomics  GDB 105  Geographies of (One) Hlth  PLS 152  Plant Genetics
BIT 171  Ethics in Biotechnology  GEL 107  Paleobiology  PLS 156  Urban Ecology
CHA 101  Human Gross Anatomy  HDE 100A  Infantcy Early Child  PLS 174  Micro Safety Fruit & Veg
CHE 100  Environmental Water Chem  HDE 100C  Adulthood and Aging  PMI 126*  Fund Immunology
CHE 118**  Org Chem for Health & Life Sci  HDE 117  Longevity  PMI 127*  Medical Microbiol
CHE 130A  Pharmaceutical Chemistry  HIS 109B  Env Chng Dis & Pub Hlth  PMI 128*  Biol Animal Viruses
CHE 130B  Pharmaceutical Chemistry  HIS 110  World History, OneHealth  POL 107  Environ. Politics and Admin
CHI 112  Globalization of Chicana/o Com.  HIS 139A  Medieval Renaissance Med.  POL 109  Pub Pol & Gov Proc
CHI 114  Reproductive Health  HIS 139B  Medicine Society Culture Mod  POL 110  Research Approaches Disability
CHI 121  Chicana/o Comm. Mental Health  HIS 172  Am Environmental History  POL 115  Mass Media & Politics
CHI 131  Chicanas in Politics & Policy  HMR 134  Human Rights  PSC 125  Behav Gen & Epigenetics
CMN 120  Interpersonal Communic  MCB 162  Human Genetics Genomics  PSC 126  Health Psychology
CMN 161  Health Communication  MIC 105  Microbial Diversity  PSC 135  Cognitive Neuroscience
CMN 165  Media and Health  MIC 111  Human Microbiology  PSC 168  Abnormal Psych
EDU 110  Ed Psych: Gen  MIC 175  Cancer Biology  SAS 109  Env Chng Dis & Pub Hlth
EDU 142  Intro Environ Educ  MMI 130  Medical Mycology  SAS 110  Applications Evolution
ENT 100  Gen Entomology  MMI 188  Human Immunology  SOC 154  Health and Illness
ENT 104  Behav Ecol Insects  NEM 110  Intro To Nematology  SOC 160  Sociology of the Environment
ENT 105  Insect Ecology  NPB 100  Neurobiology  SOC 162  Society, Culture, and Health
ENT 119  Apiculture  NPB 101  Systemic Physiology  SOC 164  Health Policy & Politics
ENT 153*  Med Entomology  NPB 102  Animal Behavior  SPH 101  Intro to Public Health
ENT 156*  Bio Of Paras  NPB123  Comparative Vertebrate Organ.  SPH 102  Intro to Epidemiology
ENT 158  Forensic Ent  NPB 130  Endocrinology  SPH 104  Globalization and Health
ESP 100  General Ecology  NPB 132  Genes Nutrients Health  SPH 113  Health Disparities in the US
ESP 121  Population Ecology  NPB 168  Neurobiol Addict Drugs  STS 121  Medical Anthropology
ESP 165  Climate Policy  NUT 111  Intro to Nut and Metabolism  STS 129  Global Health & Medicine
ETX 101  Principles Environ Tox  NUT 1271  Stress and Development  UWP 101  Advanced Composition
ETX 102A  Env Fate of Toxicants  NUT 130  Expt in Nutrition  UWP 104E  Writing in Science
ETX 103A  Bio Effects of Toxicants  PHI 108  Phil of Biology  UWP 104F  Writing in Health Prof
ETX 110  Toxic Tragedies  PHI 120  Environmental Ethics  WFC 120  Biol Cons Fishes
ETX 1271  Stress and Development  PHI 121  Bioethics  WFC 122  Pop Dyn and Est
ETX 140  Genes and the Environment  PHR 106  Animals in Society  WFC 152  Ecol Human-Wildl Confl
ETX 146  Exposure Assessment  PLB 105  Developmental Plant Anatomy  WMS 182  Global Gender & Culture
EVE 101  Introduction to Ecology

*Exception: These classes cannot be taken as Restricted Elective if they are selected as a Pathogen/Disease course to fulfill the GDB Depth Subject Matter requirement.

**Can only be counted when taken at UC Davis.

1,2 These are cross-listed classes or verified similar and cannot both be taken as REs.

2 Can only take 188A OR 188B
Appendix B

The following courses are not eligible as GDB Restricted Electives. This Appendix B is subject to change: The most current version of Appendix B can be found in the most current version of the RE Guide sent out to GDB students.

1) **GDB core courses**
These include GDB 90, SAS 13, PMI129Y, VME158, GDB 101, GDB 102, and GDB 187.

2) **GDB Preparatory Subject Matter courses**

3) **GDB Depth Subject Matter courses**
BIS 101, BIS 102, BIS 103, BIS 105, EVE 100, MIC 101, MIC 102, MIC 103L, GDB 189, and GDB 189D. The two courses you choose for the pathogen/disease major requirement cannot also count as REs.

4) **Any class in the UC Davis General Catalog or Course Supplement that ends in ‘D’**
These typically are discussion sections.

5) **EAP192/UWP198 Internships that are not Global Health Internships Abroad**
These include Business and Communication Internships in Hong Kong and New Zealand and an Engineering Internship in Australia.

6) **Lower-division courses (0-99) that are P/NP graded only.**

7) **Courses for which a previous petition to allow them as Restricted Elective was denied**

   ITA 1085
   ITA 1215
   ITA 145S

   SPA 141S
Appendix C

RE WORKSHEET

Use this worksheet as your personal draft list of GDB Restricted Electives. Update as needed. Provide course code (e.g. ANT 129), full title (e.g. Health and Medicine in a Global Context), how it is graded (letter or P/NP), the quarter/year you plan to take it or already took it, and the number of units.

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