The graduate program in **Evolution, Ecology, & Population Biology** studies the origins and maintenance of biodiversity on both evolutionary and ecological timescales. The program combines field studies with the technical advances of molecular genetics, statistics, large-scale genomics, quantitative genetics, and mathematical theory to gain an understanding of evolutionary history and environmental biology.

Students’ research opportunities are enriched by the University's partnerships with local institutions. Our Tyson Research Center allows field studies in local natural ecosystems. The Missouri Botanical Garden conducts systematic study of plant diversity worldwide. The Saint Louis Zoo facilitates studies of the conservation biology of exotic large animals. Our faculty and students also conduct studies on a global scale at field sites in Africa, Asia, and South America.

The **Research Environment**

Research in the program is extremely diverse. Study organisms include model systems such as yeast, Drusophila, Arabidopsis, and Dictyostelium, human populations, agricultural species, and various natural plant and animal populations.

**research areas include:**

- levels and maintenance of genetic variation in natural plant and animal populations
- variation at medically relevant genes and candidate loci
- molecular evolution of genes
- mechanisms of speciation and adaptation
- factors that contribute to biodiversity across space and time
- interaction of species and how such interactions affect biodiversity
- restoration and conservation of species
- biology of invasive species
- role of species in the functioning of entire ecosystems
- phylogenetic relationships among populations, species and higher taxa
Evolution, Ecology, & Population Biology

Required Courses

- Population Biology Seminar
- Ethics & Research Science

AND select at least ONE (1) from each group:

GROUP 1
- Population Ecology
- Community Ecology
- Disease Ecology

GROUP 2
- Macroevolution
- Population Genetics
- Molecular Evolution
- Behavioral Ecology

GROUP 3
- Genomics
- Advanced Genetics

Advanced Electives

- Statistics
- Floristic Taxonomy
- Quantitative Genetics
- R-Workshop
- Other courses as approved by the Program Director

APPLICATION DEADLINE
DECEMBER

EXPLORE & APPLY:
tinyurl.com/dbbstour

For more information about the EVOLUTION, ECOLOGY & POPULATION BIOLOGY program and faculty research:
tinyurl.com/dbbs-eepbfaculty

dbbs-info@email.wustl.edu facebook.com/wustldbbs @WUSTLdbbs

Program Benefits & Support

- Full tuition funding and benefits*, including:
  - generous stipend | travel funds for scientific meetings | health, life, and disability insurance coverage
- Opportunities to obtain nationally competitive fellowships, awards, and grants
- Free Metro U-Pass to travel in and around the St. Louis area
- Access to all university educational, entertainment, and recreational resources

*guaranteed, provided that satisfactory progress towards completion of degree requirements is met

DBBS celebrates diversity in all of its forms.
We invite all students to apply, especially those from backgrounds historically underrepresented in the sciences, such as African, Latin, and Native Americans, those with disabilities, and individuals from low-income backgrounds.

To learn more about DBBS’ diversity initiatives, visit: https://tinyurl.com/dbbsdiversity