



# POSGRADO

**Maestría en Ciencias en Recursos Naturales y Desarrollo Rural**

**NOMBRE DE LA ASIGNATURA**

**FUNDAMENTOS DE BIOLOGÍA DE LA  
CONSERVACIÓN**

**Curso optativo III**

**Segundo  
cuatrimestre**

**TS-2040**

**RESPONSABLE: Juan  
Jacob Schmitter Soto &  
Sophie Calme**

## OBJETIVOS GENERALES

- Comprender y discutir críticamente los fundamentos teóricos de la biología de la conservación.
- Introducirse a los principales métodos de muestreo y análisis requeridos para los programas de conservación de la biodiversidad

## TEMARIO/CALENDARIO

- 1 [Biología de la conservación](#): concepto, principios, historia (JS & SC). **Lunes 1 de agosto, 2016.**
- 2 Diversidad biológica: distribución (SC). **Martes 2.**
- 3 Extinción y vulnerabilidad: rareza y endemismo (SC). **Miércoles 3.**
- 4 Ecología del paisaje (SC). **Jueves 4.**
- 5 Fragmentación: reservas (SC). **Viernes 5.**
- 6 Ecología: redes tróficas, especies clave (JS). **Lunes 8.**

[7 Inventario, monitoreo](#) e integridad biótica (JS). **Martes 9 - Miércoles 10.**

**Salida de campo a la ribera del río Hondo (aplicación de un IBI): Jueves 11.**

**Análisis de datos de la salida de campo: Viernes 12.**

**Examen 1: Lunes 15.**

[8 Sistemática y especiación](#): su relación con la biodiversidad (JS). **Martes 16.**

[9 Bases evolutivas y genéticas](#) de la biología de la conservación (JS). **Miércoles 17 - Jueves 18.**

10 Dinámica de [metapoblaciones](#) y análisis de viabilidad poblacional (JS). **Viernes 19 - Lunes 22.**

11 [Sostenibilidad](#): economía ecológica, ciencia y política (JS). **Martes 23.**

**Exposiciones de doctorantes: Miércoles 24.**

**Examen 2: Jueves 25.**

**Presentación y entrega de trabajos finales: Viernes 26.**

### **ACTIVIDADES DE APRENDIZAJE**

El curso se desarrolla usualmente con clases formales y sesiones de discusión. Algunos temas incluirán prácticas en computadora. Ocasionalmente se pedirán tareas, por lo general la respuesta a un cuestionario relacionado con el tema del día, mismo que será entregado la clase previa; estas tareas se basarán en la literatura sugerida u otras fuentes.

El trabajo final será preferentemente un análisis y discusión de datos reales, propios o ajenos, publicados o inéditos, relacionados o no con la tesis del alumno. Debe elaborarse en equipos de dos o tres estudiantes. El tema se definirá lo más temprano posible en el curso, notificándolo a los profesores. En el caso de doctorantes que tomen el curso como seminario avanzado, podrá considerarse también la modalidad individual para el trabajo final. En adición a dicho trabajo, cada doctorante deberá impartir ante el grupo un tema de su elección (a programarse ya sea el lunes 17 o el miércoles 19).

No está de más enfatizar que todos los textos, desde los cuestionarios hasta el ensayo final, deben estar escritos por el alumno mismo, con sus propias palabras. No se aceptarán fragmentos textuales de la literatura ni cuestionarios demasiado similares entre los estudiantes; el plagio es severamente penado.

**Horario:** De lunes a viernes, a partir de las 9 am hasta las 12 h o 13 h, con pausa a las 10:30 h. Los profesores estarán disponibles para consulta en sus cubículos, salvo aviso en contrario.

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### **EVALUACIÓN DEL CURSO**

Se aplicarán dos exámenes escritos; cada uno equivaldrá a 30% de la calificación final. Un 15% más corresponderá a la entrega de cuestionarios (tareas) y 25% al trabajo final.

En el caso de los doctorantes inscritos en la materia, los exámenes valdrán 20% de la calificación final cada uno; la exposición de un tema ante el grupo otro 20%, y el 40% restante corresponderá al trabajo

final. No es obligatorio para ellos entregar tareas.

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