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| UNIDAD IZTAPALAPA | | DIVISION CIENCIAS BIOLÓGICAS Y DE LA SALUD | | 1/ 7 |
| NOMBRE DEL PLAN MAESTRIA EN BIOLOGIA | | | | |
| CLAVE | UNIDAD DE ENSEÑANZA-APRENDIZAJE | | CREDITOS | 8 |
| 2306012 | TEORIA ECOLOGICA Y EVOLUTIVA III | | TIPO | OBL. |
| H.TEOR. 4.0 | | | TRIM. | III |
| H.PRAC. 0.0 | SERIACION | | | |
| | 2306009 | | | |

OBJETIVO (S) :

Que al final del curso el alumno sea capaz de:

- Discutir e interpretar, de manera integral, los procesos de descripción y análisis de la composición, estructura y dinámica de las comunidades biológicas y de la biósfera.
- Reconocer los principales efectos de la actividad humana sobre los ecosistemas y la Biosfera.

CONTENIDO SINTÉTICO:

1. Naturaleza de las comunidades. Coexistencia, competencia interespecífica, repartición de recursos y diversidad.
2. Patrones de diversidad a nivel global y procesos a los que están sujetos. Biogeografía de islas.
3. Dinámica de comunidades. El papel de la Historia. Modelos deterministas, azarosos y caóticos.
4. Disturbios y sucesión. Equilibrio y estabilidad. Fragmentación de hábitats.
5. Trofodinámica. Flujo de energía y nutrientes en las comunidades.
6. Impacto de factores desestabilizantes. Actividades humanas y fenómenos naturales. Crecimiento poblacional humano; principales efectos ecológicos de la producción de desechos, contaminación y manejo de especies exóticas.
7. Biodiversidad; principios teóricos y prácticos de la conservación biológica.
8. Esquemas de uso de recursos naturales y explotación directa de la vida



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silvestre; restauración ecológica.

9. Factores no biológicos de la utilización racional de los recursos naturales (sociales, económicos, legales, etc.); el debate sobre la sustentabilidad.

MODALIDADES DE CONDUCCION DEL PROCESO ENSEÑANZA-APRENDIZAJE:

Exposición del profesor y participación activa del alumno en sesiones de discusión temática.

MODALIDADES DE EVALUACION:

Al menos dos evaluaciones periódicas.
Participación en talleres de lectura.

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