#### Studia stacjonarne I stopnia na kierunku *Ochrona Środowiska ( rok akademicki 2012/2013)*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Nazwa przedmiotu** | **Liczba punktów** | **Egzamin (zal.) po semestrze** | **Godziny zajęć** | | | | | | | | | **Rozkład godzin zajęć** | | | | | | | | | | | | | | | | | | |
| **I rok** | | | | | | **2 rok** | | | | | | 3 rok | | | | | | |
| **Razem godzin** | **w tym** | | | | | | | | **1 sem.** | | | **2 sem.** | | | **3 sem.** | | | **4 sem.** | | | **5 sem.** | | | **6 sem.** | | |
| Wykład | Konwersatorium | Seminarium | Ćwiczenia | Laboratorium | Ćwiczenia terenowe | Praktyki zawodowe | **15 tyg.** | | | **15 tyg.** | | | **15 tyg.** | | | **15 tyg.** | | | **15 tyg.** | | | **15 tyg.** | | |
| **w** | | **ćw.** | w | | **ćw.** | w | | **ćw.** | **w** | | **ćw.** | **w** | | **ćw.** | **w** | | **ćw.** |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | | **14** | **15** | | **16** | **17** | | **18** | **19** | | **20** | **21** | | **22** | **23** | | **24** |
|  | BHP i ergonomia | 1 | 1z | 15 | 15 |  |  |  |  |  |  | 15 | |  |  | |  |  | |  |  | |  |  | |  |  | |  |
|  | Botanika i mikologia stosowana | 6 | 1E | 60 | 30 |  |  | 30 |  |  |  | 30 | | 30 |  | |  |  | |  |  | |  |  | |  |  | |  |
|  | Chemia ogólna i analityczna | 6 | 1E | 75 | 30 |  |  |  | 45 |  |  | 30 | | 45 |  | |  |  | |  |  | |  |  | |  |  | |  |
|  | Geologia ogólna | 5 | 1E | 60 | 30 |  |  | 30 |  |  |  | 30 | | 30 |  | |  |  | |  |  | |  |  | |  |  | |  |
|  | Matematyka i statystyka | 6 | 1E | 60 | 30 |  |  | 30 |  |  |  | 30 | | 30 |  | |  |  | |  |  | |  |  | |  |  | |  |
|  | Zagrożenia cywilizacyjne | 4 | 1z | 45 | 45 |  |  |  |  |  |  | 45 | |  |  | |  |  | |  |  | |  |  | |  |  | |  |
|  | Prawo autorskie | 2 | 1z | 30 | 30 |  |  |  |  |  |  | 30 | |  |  | |  |  | |  |  | |  |  | |  |  | |  |
|  |  | **30** |  |  |  |  |  |  |  |  |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |
|  | Chemia organiczna | 5 | 2E | 45 | 15 |  |  |  | 30 |  |  |  | |  | 15 | | 30 |  | |  |  | |  |  | |  |  | |  |
|  | Ekologia | 4 | 2E | 30 | 30 |  |  |  |  |  |  |  | |  | 30 | |  |  | |  |  | |  |  | |  |  | |  |
|  | Fizyka | 6 | 2E | 60 | 30 |  |  |  | 30 |  |  |  | |  | 30 | | 30 |  | |  |  | |  |  | |  |  | |  |
|  | Geologia historyczna | 4 | 2E | 30 | 10 |  |  | 20 |  |  |  |  | |  | 10 | | 20 |  | |  |  | |  |  | |  |  | |  |
|  | Socjologia1) | 3 | 2z | 30 | 30 |  |  |  |  |  |  |  | |  | 30 | |  |  | |  |  | |  |  | |  |  | |  |
|  | Ekosystemy lądowe (ćwiczenia terenowe) 2) | 3 | 2z | 48  (6 dni) |  |  |  |  |  | 48 |  |  | |  |  | | 48 |  | |  |  | |  |  | |  |  | |  |
|  | Geologia ogólna i złożowa (ćwiczenia terenowe) 3) | 3 | 2z | 48  (6 dni) |  |  |  |  |  | 48 |  |  | |  |  | | 48 |  | |  |  | |  |  | |  |  | |  |
|  | Geomorfologia | 2 | 2z | 25 | 15 |  |  |  |  | 10 |  |  | |  | 15 | | 10 |  | |  |  | |  |  | |  |  | |  |
|  |  | **30** |  |  |  |  |  |  |  |  |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |
|  | Chemia fizyczna | 4 | 3E | 45 | 15 |  |  |  | 30 |  |  |  | |  |  | |  | 15 | | 30 |  | |  |  | |  |  | |  |
|  | Kartografia z elementami teledetekcji | 4 | 3z | 45 | 15 |  |  | 30 |  |  |  |  | |  |  | |  | 15 | | 30 |  | |  |  | |  |  | |  |
|  | Zrównoważony rozwój | 2 | 3z | 30 | 30 |  |  |  |  |  |  |  | |  |  | |  | 30 | |  |  | |  |  | |  |  | |  |
|  | Hydrologia i gospodarowanie wodą | 5 | 3E | 60 | 30 |  |  | 30 |  |  |  |  | |  |  | |  | 30 | | 30 |  | |  |  | |  |  | |  |
|  | Meteorologia i klimatologia | 5 | 3E | 60 | 30 |  |  | 30 |  |  |  |  | |  |  | |  | 30 | | 30 |  | |  |  | |  |  | |  |
|  | Biologia zwierząt | 5 | 3E | 60 | 30 |  |  | 30 |  |  |  |  | |  |  | |  | 30 | | 30 |  | |  |  | |  |  | |  |
|  | Podstawy genetyki 4) | 2 | 3z | 20 | 20 |  |  |  |  |  |  |  | |  |  | |  | 20 | |  |  | |  |  | |  |  | |  |
|  |  | **27** |  |  |  |  |  |  |  |  |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |
|  | Biochemia | 5 | 4E | 60 | 15 |  |  |  | 45 |  |  |  | |  |  | |  |  | |  | 15 | | 45 |  | |  |  | |  |
|  | Różnorodność biologiczna - flora Polski | 3 | 4E | 45 | 15 |  |  | 30 |  |  |  |  | |  |  | |  |  | |  | 15 | | 30 |  | |  |  | |  |
|  | Różnorodność biologiczna - fauna Polski | 3 | 4E | 45 | 15 |  |  | 30 |  |  |  |  | |  |  | |  |  | |  | 15 | | 30 |  | |  |  | |  |
|  | Gleboznawstwo | 4 | 4E | 45 | 15 |  |  | 30 |  |  |  |  | |  |  | |  |  | |  | 15 | | 30 |  | |  |  | |  |
|  | Technologie informacyjne | 2 | 4z | 30 | 10 |  |  | 20 |  |  |  |  | |  |  | |  |  | |  | 10 | | 20 |  | |  |  | |  |
|  | Geochemia środowiska | 2 | 4z | 30 | 15 |  |  | 15 |  |  |  |  | |  |  | |  |  | |  | 15 | | 15 |  | |  |  | |  |
|  | Analiza środowiska atmosferycznego i wodnego (ćwiczenia terenowe) 5) | 3 | 4z | 48  (6 dni) |  |  |  |  |  | 48 |  |  | |  |  | |  |  | |  |  | | 48 |  | |  |  | |  |
|  | Biologia środowiska  (ćwiczenia terenowe) 6) | 3 | 4z | 48  (6 dni) |  |  |  |  |  | 48 |  |  | |  |  | |  |  | |  |  | | 48 |  | |  |  | |  |
|  | Praktyki zawodowe | 8 | 4z | 4 tyg. 160 godz |  |  |  |  |  |  | 160 godz. |  | |  |  | |  |  | |  |  | | 160  godz. |  | |  |  | |  |
|  |  | **33** |  |  |  |  |  |  |  |  |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |
|  | Biologia drobnoustrojów | 5 | 5E | 60 | 30 |  |  |  | 30 |  |  |  | |  |  | |  |  | |  |  | |  | 30 | | 30 |  | |  |
|  | Monitoring środowiska | 4 | 5z | 60 | 30 |  |  |  | 30 |  |  |  | |  |  | |  |  | |  |  | |  | 30 | | 30 |  | |  |
|  | Wybrane instrumenty ochrony środowiska | 3 | 5E | 45 | 30 | 15 |  |  |  |  |  |  | |  |  | |  |  | |  |  | |  | 30 | | 15 |  | |  |
|  | Ochrona przyrody | 3 | 5E | 45 | 30 | 15 |  |  |  |  |  |  | |  |  | |  |  | |  |  | |  | 30 | | 15 |  | |  |
|  | Technologie w ochronnie środowiska | 4 | 5E | 75 | 30 |  |  |  |  | 45 |  |  | |  |  | |  |  | |  |  | |  | 30 | | 45 |  | |  |
|  | Przedmioty do wyboru /8 punktów/ |  |  | 60 |  |  |  |  |  |  |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |
|  |  | **27** |  |  |  |  |  |  |  |  |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |
|  | Seminarium przedmiotowe – fakultatywne | 3 | 6z | 30 |  |  | 30 |  |  |  |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | | 30 |
|  | GIS | 3 | 6E | 48 | 24 |  |  |  | 24 |  |  |  | |  |  | |  |  | |  |  | |  |  | |  | 24 | | 24 |
|  | Prawo i ekonomia w ochronie środowiska | 4 | 6E | 75 | 30 | 45 |  |  |  |  |  |  | |  |  | |  |  | |  |  | |  |  | |  | 30 | | 45 |
|  | Język angielski | 5 | 6 | 240 |  |  |  |  |  |  |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |
|  | Wychowanie fizyczne | 2 | 6 | 60 |  |  |  |  |  |  |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |
|  | Przedmioty do wyboru /6 punktów/ | 6 |  | 60 |  |  |  |  |  |  |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |
|  | Przygotowanie do egzaminu dyplomowego | 10 | 6E | x | x | x | x | x | x | x | X |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |
|  |  | **33** |  |  |  |  |  |  |  |  |  |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |
|  | **Łączna****liczba pkt. i godzin** | **180** |  | **2 350** | **859** | **75** | **30** | **415** | **264** | **247** | **160** |  | |  |  | |  |  | |  |  | |  |  | |  |  | |  |

1. Socjologia (W - 30 godz., 3 ECTS) do wyboru z przedmiotem, Filozofia (W - 30 godz., 3 ECTS)
2. Ekosystemy lądowe (ćwiczenia terenowe - 48 godz., 3ECTS) do wyboru z ćwiczeniami terenowymi pn. Ekologia roślin – wakacyjne ćw. terenowe w Karpaczu ( 35 godz., 3 ECTS) realizowane w 2 semestrze na studiach I stopnia biologii - specjalność *biologia środowiska*
3. Geologia ogólna i złożowa (ćwiczenia terenowe - 48 godz., 3ECTS) do wyboru z ćwiczeniami terenowymi w Instytucie Nauk Geologicznych: pn. Geologia dynamiczna I **(**36 godz., 2 ECTS) + Geologia historyczna (36 godz. 2 ECTS)realizowane w 2 i 4 semestrze na studiach I stopnia geologii
4. Podstawy genetyki (W - 20 godz., 2 ECTS) do wyboru z przedmiotami, np. Czynniki rozwoju człowieka i ochrony zdrowia (W – 30, Ćw - 30, 5 ECTS); lub Etologia (W - 30 godz., 3 ECTS) realizowane w 5 i 3 semestrze na studiach I stopnia biologii
5. Analiza środowiska atmosferycznego i wodnego (ćwiczenia terenowe - 48 godz., 3ECTS) do wyboru z ćwiczeniami terenowymi pn. Ćw. terenowe z meteorologii i klimatologii (56 godz., 3 ECTS) realizowane w 2 semestrze na studiach I stopnia geografii
6. Biologia środowiska (ćwiczenia terenowe - 48 godz., 3ECTS) do wyboru z ćwiczeniami terenowymi pn. Zoologia bezkręgowców - wakacyjne ćw. terenowe w Miliczu (35 godz., 3 ECTS), lub Zoologia kręgowców – wakacyjne ćw. terenowe w Miliczu - ornitologia (70 godz., 4 ECTS) realizowane w 2 i 4 semestrze na studiach I stopnia biologii, spec. *biologia środowiska*