

MANDATORY COURSE: Interdisciplinary Research Methods and Practices		
CONCENTRATION AREA: Biological, Social, and Environmental Determinants of Health		
COURSE CODE:	CREDIT HOURS:: 45h	CREDITS: 3
<p>SYLLABUS</p> <p>Approach to interdisciplinary research for knowledge production. Discussion of conceptual, methodological (qualitative and quantitative), and ethical aspects. Foundations for research development, production, and dissemination of knowledge. Writing scientific articles and standards. Understanding what constitutes a scientific article. Qualis and impact factor. Journals in the interdisciplinary field. The peculiarities of scientific writing. Structure of a scientific text. Rules for article preparation. Originality, significance, and scope of the article.</p>		
<p>BIBLIOGRAPHY</p> <p>PHILIPPI JR., A; FERNANDES, V.; PACHECO, R.C.S. Ensino, pesquisa e inovação: Desenvolvendo a interdisciplinaridade. 1st Ed, Manole, 2016.</p> <p>FAZENDA, I.; TAVARES, D.; GODOY, H. Interdisciplinaridade na Pesquisa Científica. 1st Ed, Papirus, 2015.</p> <p>OLIVEIRA JR., J.M. Os múltiplos olhares na área da pesquisa: Da observação ao conhecimento. São Paulo: Universidade de Sorocaba, 2011.</p> <p>AQUINO, I.S. Como escrever artigos científicos. Editora Saraiva, 2017.</p> <p>HULLEY S.B et al. Delineando a pesquisa clínica: uma abordagem epidemiológica/tradução: Michael Schmidt Duncan – 4th Ed. – Porto Alegre: Artmed, 2015.</p> <p>KÖCHE, J. C. (2016). Fundamentos de metodologia científica. Editora Vozes.</p> <p>LAKATOS, E. M.; MARCONI, M. de A. Fundamentos de Metodologia Científica Editora Atlas. 2017.</p>		

MANDATORY COURSE: Interdisciplinary Seminars		
CONCENTRATION AREA: Biological, Social, and Environmental Determinants of Health		
COURSE CODE:	CREDIT HOURS:: 45h	CREDITS: 3

SYLLABUS

Study of the fundamentals of health, its theoretical foundations, and the interface between education and health/environment and health/society and health. Current challenges in interdisciplinary collaboration between education and health. Debate and discussion of foundational texts that demonstrate the impact of interdisciplinary research in the areas of health, society, and the environment.

BIBLIOGRAPHY

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MCPHAIL-BELL, K.; BOND, C.; BROUGH, M.; FREDERICKS, B. 'We don't tell people what to do': ethical practice and Indigenous health promotion. *Health Promot J. Austr.* 2015 Dec;26(3):195-199. doi: 10.1071/HE15048.

MENDES, Rosilda; FERNANDEZ, Juan Carlos Aneiros and SACARDO, Daniele Pompei. Health promotion and participation: approaches and inquiries. *Saúde debate* [online]. 2016, vol.40, n.108, pp.190-203. ISSN 0103-1104. <http://dx.doi.org/10.1590/0103-1104-20161080016>.

HEIDMANN, IVONETE T.S. BUSS et al. Health promotion: historical trajectory of its conceptions. *Texto contexto - enferm.*, Jun 2006, vol.15, no.2, p.352-358. ISSN 0104-0707. Articles and periodicals from interdisciplinary and related fields.

Journals available in the Scielo, Scopus, and Medline databases, Pubmed, and Capes patent databases.

MANDATORY COURSE: Interdisciplinary Aspects of the Health-Disease Process

CONCENTRATION AREA: Biological, Social, and Environmental Determinants of Health

COURSE CODE:

CREDIT HOURS:: 45h

CREDITS: 3

SYLLABUS

Conceptual evolution of health promotion, disease prevention, and control, the new paradigm of collective health; education, communication, and social mobilization. Examines the historical evolution of the health-disease concept in society; the human being and the health-disease process; the production and distribution of diseases. Living conditions and the health-disease process in rural and traditional contexts. Biological, economic, and social factors contributing to the emergence or re-emergence of pathogens. Health-disease phenomenon in light of scientific advances. Culture and health. Western culture and the care of life. Health and existence. Notions of care in healthcare.

BIBLIOGRAPHY

BUSATO, I.M.S. Epidemiologia Processo Saúde-Doença. 1st ed. Curitiba, PR: Editora InterSaberes, 2016.

CORDEIRO, L. Pesquisa-ação na área da saúde: Uma proposta marxista a partir da revisão de escopo. Tese (Doutorado). São Paulo, 2016.

DIMENSTEIN, M. et al. (Orgs.). Condições de vida e saúde mental em contextos rurais. São Paulo: Intermeios; Brasília: CNPq; Natal: UFRN. Teresina: UFPI; Fapegi, 2016.

FIORATI, R.C.; ARCENCIO, R.A.; SOUZA, L.B. As iniquidades sociais e o acesso à saúde: desafios para a sociedade, desafios para a enfermagem. Revista Latino-Americana de Enfermagem, v. 24:e2687, 2016.

FIORATI, R.C.; ARCÊNCIO, R.A.; SEGURA DEL POZO J.; RAMASCO-GUTIÉRREZ, M.; SERRANO-GALLARDO, P. Intersectorality and social participation as coping policies for health inequities worldwide. Gaceta Sanitaria, v. 32, p. 304-314, 2017.

GOMES, R.M. Saúde-doença sob o capitalismo atual. In: Gomes, R.M. Humanização e desumanização no trabalho em saúde. Rio de Janeiro: Editora Fiocruz, 2017.

LOBATO, L.V.C. & GIOVANELLA, L. Sistemas de Saúde: origens, componentes e dinâmica. In: GIOVANELLA, L.; ESCOREL, S.; LOBATO, L.V.C.; NORONHA, J.C.; CARVALHO, A.I. (orgs.) Políticas e Sistema de Saúde no Brasil. 2nd ed. RJ: Editora Fiocruz, 2017.

MACINKO, J.; STARFIELD, B. The utility of social capital in research on health determinants. The Milbank Quarterly, v. 9, p. 387-427, 2017.

ROUQUARYOL, A. Epidemiologia e Saúde. 8th ed. Rio de Janeiro, RJ: Editora Medbook, 2017.

STEFANO, C.; RANIERI G. Can the scientific world positively influence decision makers on planetary health? The Lancet, v. 391, p. 425-426, 2018.

VIEIRA-FILHO, N.G. (Org.). Crises, processos psicossociais, promoção de saúde. 1st ed. Curitiba, PR: CRV, 2016.

CONCENTRATION AREA: Biological, Social, and Environmental Determinants of Health		
COURSE CODE:	CREDIT HOURS:: 45h	CREDITS: 3
<p>SYLLABUS</p> <p>An interdisciplinary space designed to guide postgraduate students in learning from, with, and about each other. Through longitudinal group monitoring with up to 7 participants, the faculty/tutor will facilitate the development of resilience during moments of sharing and reflection based on experiences in coursework, scientific research, project development, and thesis writing. The objective is to identify challenges at each stage, reflect on achievements, and propose strategies to enhance results throughout the course.</p>		
<p>BIBLIOGRAPHY</p> <p>LAKOMY, A.M. Cognitive Learning Theories. Curitiba: Intersaberes, 2014.</p> <p>LIMA, Valéria Vernaschi et al. Challenges in the education of health professionals: an interdisciplinary and interprofessional approach. Interface (Botucatu), Botucatu, v. 22, supl. 2, p. 1549-1562, 2018. Available at. Accessed on Jul 9, 2019. http://dx.doi.org/10.1590/1807-57622017.0722.</p> <p>MOURTHE JUNIOR, Carlos Alberto; LIMA, Valéria Vernaschi; PADILHA, Roberto de Queiroz. Integrating Emotions and Rationalities for Competency Development in Active Learning Methodologies. Interface (Botucatu), Botucatu, v. 22, n. 65, p. 577-588, Apr 2018. Available at. Accessed on Jul 9, 2019. Epub Dec 21, 2017. http://dx.doi.org/10.1590/1807-57622016.0846.</p>		

MANDATORY COURSE: Teaching Methodology in Higher Education		
CONCENTRATION AREA:		
COURSE CODE:	CREDIT HOURS:: 30h	CREDITS: 2

SYLLABUS

Discuss the fundamentals of learning for university students and its relationship with teaching methodology, based on concepts of traditional and innovative teaching paradigms. Establish the connection between planning and teaching methodology for selecting and utilizing content, methods, and teaching techniques to achieve learning objectives. Acquire knowledge of various teaching methods and techniques and how to use them to diversify classroom activities, as well as understanding the National Curricular Guidelines for health-related undergraduate programs and the Higher Education Course Evaluation System.

BIBLIOGRAPHY

CARVALHO MCM. Construindo o saber - metodologia científica: fundamentos e técnicas. 22nd edition.

Campinas: Papyrus, 2010.

DA SILVA SP, GREZZANA JF. A pesquisa como princípio educativo. São Paulo: InterSaberes, 2013.

COGGIOLA O. Universidade e ciência na crise global. São Paulo: Xamã, 2001.

GIL AS. Didática do ensino superior. 2nd edition, Atlas, 2018.

LAVILLE C, DIONNE J. A construção do saber - manual de metodologia de pesquisa em ciências humanas. Porto Alegre: Artmed, 1999.

PIMENTA SG, ANASTASIOU LGC. Docência no ensino superior 5th edition. São Paulo: Cortez, 2017.

VIEGA IPA. O que há de novo na educação superior: do projeto pedagógico à prática transformadora. Campinas: Papyrus, 2000.

MANDATORY COURSE: Teaching Internship

CONCENTRATION AREA:

COURSE CODE:

CREDIT HOURS:: 30h

CREDITS: 2

SYLLABUS

The teaching internship is an integral part of the postgraduate student's education, aiming at preparing for teaching and enhancing undergraduate teaching skills. The student will undergo supervised teaching experience at the higher education level, participating in and/or delivering classes in undergraduate courses at higher education institutions, preferably at the University of Pernambuco. The student, with the approval of their internship supervisor, must present a Teaching Internship Activities Plan outlining the planning, development, evaluation of teaching plans and programs, creation of teaching materials, student support, and grading of tests and assignments.

BIBLIOGRAPHY

The basic bibliography will be determined in accordance with the undergraduate course discipline and/or other activities that will be part of the student's internship plan.

ELECTIVE COURSE: Environment, Human, and Animal Health

CONCENTRATION AREA

COURSE CODE:

CREDIT HOURS: 60h

CREDITS: 4

SYLLABUS

Introduction to concepts of environmental impacts, bioindicators, and their uses in quality analysis and environmental monitoring. Pollution and its consequences for health and the environment. Epidemiology and molecular ecology, molecular markers applied to ecological studies and phylogeography. Concepts of spatial analysis and geotechnologies for diagnosing issues related to health, environmental conservation, and society. Health impact assessment, risk analysis, and socio-environmental management. Introduction to environmental health; social determinants of health; environmental health surveillance; study designs in environmental health. Environmental education and ecological literacy as tools for improving socio-environmental quality.

BIBLIOGRAPHY

DANTAS, G.P.M. Introdução à filogeografia aplicada à conservação biológica de vertebrados neotropicais. Editora CRV, 2013.

MOORE, J. C. (2018). Ecosystem Ecology. Oxford Bibliographies in Ecology.

PAGLIARINI, É. C., OLIVEIRA, V. B. D. M., & ESPINDOLA, E. L. G. (2019). Aplicação da Análise de Risco Ecológico (Are) para Avaliação de Impactos em Ecossistemas Aquáticos Naturais. Ambiente & Sociedade, 22.

RICKLEFS, R. E., & RELYEA, R. (2018). Ecology: The economy of nature. WH Freeman.

ROWE, G.; SWEET, M.; BEEBEE, T. An introduction to molecular ecology. 3th edition, Oxford UK, 2017.

IBRAHIN, F. I. D. Introdução ao Geoprocessamento Ambiental. 1ª Edição. São Paulo: Érica, 2014.

ELECTIVE COURSE: Interdisciplinary Pain Management: A Focus on Mutual Learning, Professional Training, and Education in Healthcare

CONCENTRATION AREA

COURSE CODE:

CREDIT HOURS: 45h

CREDITS: 3

SYLLABUS

Study of the physiopathological and psychosocial mechanisms of pain, as well as pharmacological and non-pharmacological interventions. Update on pain concepts and classification systems from a neuroscience perspective. Analysis of the epidemiological and biopsychosocial aspects of major painful syndromes. Knowledge of methods and tools for pain assessment, diagnosis, and monitoring, as well as its impact on functionality and quality of life. Building alliances that promote and strengthen support systems for individuals and families within a sociocultural context, as well as mutual respect and trust among team members, valuing the knowledge of each area, their skills, and competencies. Discussion of scientific evidence for pain interventions to develop skills for working in an interdisciplinary team and providing assistance for pain-related conditions, whether physical or mental.

BIBLIOGRAPHY

BEAR, M.F.; CONNORS, B.W.; PARADISO, M.A. Neurociências: desvendando o sistema nervoso. 4ª ed. Porto Alegre: Artmed, 2017. 857p.

FEIJOO, A. M. L. C. de (Org.). Interpretações Fenomenológico-Existenciais para o Sofrimento Psíquico na Atualidade. 2.ed ver. Rio de Janeiro: IFEN, 2017.

LOUW, A. et al. Know pain, know gain? A perspective on pain neuroscience education in physical therapy. *journal of orthopaedic & sports physical therapy*, v. 46, n. 3, p. 131-134, 2016.

LOUW, A. et al. Pain Neuroscience Education: Teaching People About Pain. 2ª ed. OPTP: Minneapolis, 2018. 538p.

NICHOLAS, M. et al. The IASP classification of chronic pain for ICD-11: chronic primary pain. *Pain*, v. 160, n. 1, p. 28-37, 2019.

WATSON, J.A. et al. Pain neuroscience education for adults with chronic musculoskeletal pain: a mixed-methods systematic review and meta-analysis. *The Journal of Pain*, 2019.

ELECTIVE COURSE: Geotechnologies, Environment, and Health

CONCENTRATION AREA

COURSE CODE:

CREDIT HOURS: 60h

CREDITS: 4

SYLLABUS

Introduce concepts of spatial analysis and geotechnologies for diagnosing issues related to neglected diseases (communicable and non-communicable), environmental conservation, and society. Present geoprocessing tools used for spatial analysis. Characteristics of Geographic Information Systems (GIS). Data acquisition and manipulation. Spatial query and analysis. Applications of GIS in Health Surveillance. Identification and mapping of natural products. Theoretical models of Epidemiology and Geography regarding the health/disease process. Develop maps for health situation analysis. Applications of GIS in Health Surveillance, environmental conservation, and society.

BIBLIOGRAPHY

AGUIAR RIBEIRO, Marcos et al. Geoprocessamento em Saúde como Tecnologia de Análise e Monitoramento da Hanseníase no Município De Sobral-Ceará. Revista Baiana de Saúde Pública, [S.l.], v. 41, n. 2, abr. 2018.

SANTOS, C. S.; NOUR, A. D. A. (2017): “Aplicação de técnicas de geoprocessamento para subsidiar a análise e tomada de decisão no âmbito da atenção básica para a vigilância em saúde”, Revista Contribuciones a las Ciencias Sociales, (2017).

ARAÚJO, F. E., ANJOS, R. S., ROCHA-FILHO, G. B. Mapeamento Participativo: Conceitos, Métodos e Aplicações (Participatory Mapping: concepts, methods and applications). Bol. geogr., Maringá, v. 35, n. 2, p. 128-140, 2017. DOI: <http://dx.doi.org/10.4025/bolgeogr.v35i2.31673>

ELECTIVE COURSE: Ethnopharmacology and Clinical Cartography: Living Narratives of Traditional/Popular Knowledge

CONCENTRATION AREA

COURSE CODE:

CREDIT HOURS: 30h

CREDITS: 2

SYLLABUS

This course introduces ethnopharmacology and clinical cartography as a means to approach traditional/popular knowledge. It starts with the notion that the narrative of experience allows us to understand the interface between plants and the traditional ways of life of indigenous peoples. It also discusses environmental education from a perspective that promotes dialogue between popular and scientific knowledge, emphasizing the value of traditional culture.

BIBLIOGRAPHY

GAGNEBIM, J. M. História e Narração em Walter Benjamin. São Paulo, Perspectiva, 2018.

BRAGA, T.B.M. Atenção Psicológica e Cenários Sociais: ação clínica, instituições e políticas públicas na promoção da cidadania. Juruá, 2014.

CABRAL, B.E.B.; BARRETO, C.L.B.T.; KOVÁCS, M.J.; SCHMIDT, M.L.S. (Orgs.). Prática Psicológica em Instituições: clínica, saúde e educação. Curitiba, CRV, 2017.

LARROSA, J. Tremores: escritos sobre experiência. 1ª ed. Belo Horizonte: Autêntica, 2015.

SIMÕES, C.M.O.; SCHENKEL, E.P.; MELLO, J.C.P. MENTZ, L.A.; PETROVICK, P.R. Farmacognosia: do produto natural ao medicamento. 1ª ed. Porto Alegre: Editora Artmed, 2017.

ELECTIVE COURSE: Interdisciplinary Studies in Cell and Molecular Biology

CONCENTRATION AREA

COURSE CODE:

CREDIT HOURS: 60h

CREDITS: 4

SYLLABUS

An interdisciplinary approach to the basic processes of cell and molecular biology in the context of homeostasis and/or the etiology, development, and progression of diseases such as cancer. Introduction to basic concepts and techniques used in cell culture, fostering the development of specific skills for cell culture applications as a research strategy for drug development. Topics covered will include apoptosis; new mechanisms of gene expression control; recent discoveries that enhance the understanding of basic processes of replication, transcription, translation, and gene organization; gene expression in transgenic organisms; oncogenes; tumor suppressor genes and their effects on signaling that regulates proliferation, apoptosis, migration, and more; microenvironments; tumor stem cells and angiogenesis; new therapy strategies; basic laboratory preparation for cell line culture; culture media and complementary solutions; quality control of cell lines and culture media. Study of current ethical and legal standards.

BIBLIOGRAPHY

ALBERTS et al. Biologia Celular e Molecular, 6ª ed. Porto Alegre: Artmed. 2017.
ALBERTS et al. Fundamentos da Biologia Celular, 4ª ed. Porto Alegre: Artmed. 2017.
DIAS, M.C. Bioética. Fundamentos Teóricos e Aplicações. 1a Ed. Curitiba:Appris, 2017.281 p.
LODISH et al. Biologia Celular e Molecular. 7ª ed. Porto Alegre: Artmed. 2014.
REBELLO, M.A. Fundamentos Da Cultura De Tecido E Células Animais. 1ª ed. Editora Rubio Rio de Janeiro. 2014.

Periódicos presentes nas bases Scielo, Scopus e Medline, Pubmed e bases de patentes da base Periódicos Capes.

ELECTIVE COURSE: Advanced Studies in Quantitative Methods

CONCENTRATION AREA

COURSE CODE:

CREDIT HOURS: 45h

CREDITS: 3

SYLLABUS

Basic concepts of inferential statistics. Understanding and applying the main statistical procedures used in health sciences. Discussing the applicability and limitations of statistical procedures. Manipulation of statistical software. Analysis of variance, analysis of covariance, regression, estimation of latent variables.

BIBLIOGRAPHY

FÁVERO, L. P. Manual de análise de dados. 1ª Edição. Rio de Janeiro: Elsevier, 2017.

MAROCO, J. Análise Estatística com o SPSS Statistics. REPORTNUMBER, 2014.

MOSCON, D. C. B., JANISSEK J. A., LOZADO, J. A. Metodologia Científica Aplicada - Um guia prático para Psicólogos. 1a Edição. Salvador: Sanar,. 2018.

VIEIRA, S. Bioestatística: Tópicos avançados - testes não paramétricos, testes diagnósticos, medidas de associação e concordância. 4ª Edição. Rio de Janeiro: Elsevier, 2018.

CALLEGARI-JACQUES, S. M. Bioestatística. 1ª Edição. Porto Alegre: Artmed, 2018.

ELECTIVE COURSE: Advanced Studies in Quantitative Methods		
CONCENTRATION AREA		
COURSE CODE:	CREDIT HOURS: 45h	CREDITS: 3
<p>SYLLABUS</p> <p>The course initially discusses the theoretical-conceptual foundations of qualitative research in an interdisciplinary manner. It debates the construct, validity, reliability, controversies, and contradictions of qualitative research methods, as well as the ethical aspects involved in qualitative research. Next, it reflects on the most commonly used qualitative research methods. It presents and discusses the main types of data collection for data analysis related to qualitative research methods, and finally, it addresses the possibility of using more than one research method.</p>		
<p>BIBLIOGRAPHY</p> <p>GADAMER, H.G. Verdade e Método I: traços fundamentais de uma hermenêutica filosófica. 15. ed. Petrópolis, RJ: Vozes; Bragança, Paulista, SP: Editora Universitária São Francisco. (Coleção pensamento humano), 2015.</p> <p>GADAMER, H. Verdade e método II: complementos e índice. 6. ed. Petrópolis/RJ: Vozes, Bragança Paulista: Editora Universitária São Francisco. (Coleção pensamento humano), 2015.</p> <p>MINAYO, M.C.S. Desafio do conhecimento: pesquisa qualitativa em saúde. 14ª ed. São Paulo: HUCITEC, 2014.</p> <p>CRESWELL, J. W. Investigação Qualitativa e Projeto de Trabalho: escolhendo entre 5 abordagens. 3. ed. Porto Alegre: Penso, 2014.</p> <p>SILVA. R. M. da et al. (orgs.). Estudos Qualitativos: enfoques teóricos e técnicas de coleta de informações. Sobral, Edições UVA, 2018.</p>		

ELECTIVE COURSE: Advanced Studies in Quantitative Methods		
CONCENTRATION AREA		
COURSE CODE:	CREDIT HOURS: 45h	CREDITS: 3

SYLLABUS

The course initially discusses the theoretical-conceptual foundations of qualitative research in an interdisciplinary manner. It debates the construct, validity, reliability, controversies, and contradictions of qualitative research methods, as well as the ethical aspects involved in qualitative research. Next, it reflects on the most commonly used qualitative research methods. It presents and discusses the main types of data collection for data analysis related to qualitative research methods, and finally, it addresses the possibility of using more than one research method.

BIBLIOGRAPHY

GADAMER, H.G. Verdade e Método I: traços fundamentais de uma hermenêutica filosófica. 15. ed. Petrópolis, RJ: Vozes; Bragança, Paulista, SP: Editora Universitária São Francisco. (Coleção pensamento humano), 2015.

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MINAYO, M.C.S. Desafio do conhecimento: pesquisa qualitativa em saúde. 14ª ed. São Paulo: HUCITEC, 2014.

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SILVA. R. M. da et al. (orgs.). Estudos Qualitativos: enfoques teóricos e técnicas de coleta de informações. Sobral, Edições UVA, 2018.

ELECTIVE COURSE: Environmental Education and Human Rights

CONCENTRATION AREA

COURSE CODE:

CREDIT HOURS: 45h

CREDITS: 3

SYLLABUS

The historicity of Human Rights in Brazil and their interfaces with Latin America. Educational policies on human rights. Culture, education, and human rights. Pedagogical and methodological principles that guide education in Human Rights. Education, diversity, and difference in the educational context: gender, race, ethnicity, sexual orientation, and religious diversity issues.

BIBLIOGRAPHY

CANDAU, Vera Maria Ferrão. Cotidiano escolar e práticas interculturais. In: Cadernos de Pesquisa, v.46 n.161 p.802-820 jul./set. 2016.

MORUZZI, A. B. ; ABRAMOWICZ, A. . Infância, Raça e Currículo: alguns apontamentos sobre os documentos brasileiros para educação infantil. Revista Contemporânea de Educação , v. 10, p. 199-214, 2015.

RODINO, Ana Maria. Cultura e educação em direitos humanos na América Latina. Brasil: trajetórias, desafios e perspectivas . - João Pessoa: CCTA, 2016.

SILVA, Itamar Nunes. Tensão entre universalismo e interculturalismo na trajetória das lutas por direitos humanos no Brasil. Revista Interdisciplinar de Direitos Humanos. Bauru, v. 4, n. 1, p.11-32, jan/jun 2016.

BOMFIM, G. M. O. Educação Em Direitos Humanos. 1a Edição. Rio de Janeiro: Lumen Juris, 2015.

MANOEL, B.C.L. Interculturalidade & Interdisciplinaridade. 1a Edição. Rio de Janeiro: Autografia, 2017

ELECTIVE COURSE: Environmental Education Outside of School Space-Time

CONCENTRATION AREA

COURSE CODE:

CREDIT HOURS: 45h

CREDITS: 3

SYLLABUS

The process of community resilience and its relationship with the environment. Experience and sources of knowledge in the formation of environmental consciousness. History of environmental education and its currents. National Policy on Environmental Education and environmental education in non-formal education. Ecological literacy. Introduction to sustainable development. The context and contextualization in the formation of environmental perception. Mechanisms for addressing the theme in non-school and non-standardized spaces. Community associations as a training space. The role of modern technology in environmental transformations and its resonance in human and community existence.

BIBLIOGRAPHY

BACICH, L.; MORAN, J. (Org.). Metodologias Ativas: para uma educação inovadora. Porto Alegre: Penso, 2018. 238 p.

CARVALHO, I. C. M. (2017). Educação ambiental: a formação do sujeito ecológico. Cortez Editora.

COIMBRA, R.M.; MORAIS, N.A. (Org.). A Resiliência em Questão: Perspectivas teóricas, pesquisa e intervenção. Porto Alegre: Artmed, 2015. 232 p.

DIAS, G. F. (2015). Atividades interdisciplinares de educação ambiental. Global Editora e Distribuidora Ltda Loureiro, C. F. (2016). Educação ambiental: dialogando com Paulo Freire. Cortez Editora.

Reigota, M. (2017). O que é educação ambiental. Brasiliense.

SANTOS, P.S.M.B. Guia Prático da Política Educacional no Brasil: Ações, Planos, Programas e Impactos. 2. ed. São Paulo: Cengage Learning, 2015. 341 p.

ELECTIVE COURSE: Political Ecology, Environmental Justice, and Health

CONCENTRATION AREA

COURSE CODE:

CREDIT HOURS: 60h

CREDITS: 4

SYLLABUS

Introduction to the concepts of political ecology and neo-extractivism and their impacts on the traditional way of life of indigenous peoples, quilombolas, peasants, and other traditional communities. Decoloniality, dialogues of knowledge, and the pedagogy of the territory. Environmental justice, socio-environmental conflicts, and processes of vulnerability in traditional peoples and communities. Social determination of health and comprehensive community reparation.

BIBLIOGRAPHY

GUDYNAS, E. Diez tesis urgentes sobre el nuevo extractivismo: contextos y demandas bajo el progresismo sudamericano actual. In: Extectivismo, política y sociedade (varios autores). Quito: CAAP (Centro Andino de Acción Popular) e CLAES (Centro Latino Americano de Ecología Social), pp. 187-225, 2009.

ACSERALD, H. Ambientalização das lutas sociais – o caso do movimento por justiça ambiental, 2011.
BREILH, J. Ciencia crítica sobre impactos en la salud colectiva y ecosistemas, Guía investigativa pedagógica: evaluación de las 4 "S" de la vida. Universidad Andina Simón Bolívar, 2019.

SCOTT, P. Duplamente atingidas: violência, mulheres e políticas do estado numa grande barragem no Nordeste. Revista ANTHROPOLÓGICAS, ano 16, volume 23(1): 2012.

PORTO, MFS, ROCHA, DF, & FINAMORE, R. Saúde coletiva, território e conflitos ambientais: bases para um enfoque socioambiental crítico. Ciência & Saúde Coletiva, 19(10), 4071-4080, 2014.

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ELECTIVE COURSE: Culture and Territorialities: Subaltern Knowledge and Regionalization

CONCENTRATION AREA

COURSE CODE:

CREDIT HOURS: 30h

CREDITS: 2

SYLLABUS

Analytical study of the peculiarities and historical experiences of subaltern knowledge from a regional perspective. It will discuss the selection of discourses and practices that have historically favored procedures of social exclusion, including cultural exclusion, which reinforced the vulnerability of certain groups and minorities, especially aspects of the territoriality of traditional communities - quilombos, indigenous people, farmers, riverine communities, among others. Investigation, from a critical and interdisciplinary perspective, of the intersections between culture, territoriality, and subaltern knowledge in a regionalized context.

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ELECTIVE COURSE: Construction, Cross-Cultural Adaptation, and Validation of Measures in Social and Health Sciences

CONCENTRATION AREA

COURSE CODE:

CREDIT HOURS: 30h

CREDITS: 2

SYLLABUS

Introduction to Psychometrics: concepts and fundamentals. Criteria for choosing measurement instruments in social and health sciences. Construction and cross-cultural adaptation of measures in health sciences. Validity, precision, and interpretative norms of psychometric measures.

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ELECTIVE COURSE: Bioprospecting of Natural Products as Therapeutic Alternatives

CONCENTRATION AREA

COURSE CODE:	CREDIT HOURS: 60h	CREDITS: 4
SYLLABUS		
<p>Biodiversity and bioprospecting of natural products of plant origin through dialogue with communities. Regulation of the use of natural products in health. Production of material for preservation and identification. Mechanisms for extracting secondary compounds from plant samples and preliminary tests for identifying metabolites. Principles of isolating biomolecules. Methods for studying biological activities of natural products.</p>		
BIBLIOGRAPHY		
<p>MONTEIRO, S.C.; BRANDELLI, C.L.C. (Eds). Farmacobotânica: aspectos teóricos e aplicação. Porto Alegre: Artmed, 2017. 156p.</p> <p>SIMÕES, C.M.O.; SCHENKEL, E.P.; GOSMANN, G.; MELLO, J.C.P.; MENTZ, L.A.; PETROVICK, P.R. (Eds). Farmacognosia: do produto natural ao medicamento. Porto Alegre: Artmed, 2017. 486p.</p> <p>SIMÕES, C.M.O.; SCHENKEL, E.P.; MELLO, J.C.P.; MENTZ, L.A.; PETROVICK, P.R. Farmacognosia: Do Produto Natural ao Medicamento. 1st ed. Porto Alegre: Editora Artmed, 2017. 468p.</p> <p>OLIVEIRA, F.; AKISUE, G.; AKISUE, M.K. Farmacognosia: Identificação de Drogas Vegetais. 2nd ed. Rio de Janeiro: Editora Atheneu, 2014. 436p.</p> <p>BARREIRO, E.J.; FRAGA, C.A.M. Química medicinal: as bases moleculares da ação dos fármacos. 3rd ed. Porto Alegre: Editora Artmed, 2014. 608p.</p> <p>EMERY, F.S.; MARCHETTI, J.M. (Eds). Farmacognosia. Rio de Janeiro: Atheneu, 2017. 566p.</p> <p>Updated articles from international journals in the discipline's field.</p>		

ELECTIVE COURSE: Interdisciplinary Aspects in Obtaining and Applying Biotechnological Products for Human Health		
CONCENTRATION AREA		
COURSE CODE:	CREDIT HOURS: 60h	CREDITS: 4

SYLLABUS

Therapeutic efficacy of products obtained from animal, human, or microbial cells and their main applications for the treatment of human diseases. Sources of commercially/industrially valuable and biotechnological enzymes (plant, animal, and microbial). Microbial enzymes. Industrial and biotechnological applications of microbial enzymes. Characteristics of commercially valuable enzymes and considerations for enzyme selection. Methods for the production of microbial enzymes by fermentation processes. Methods for recovery, isolation, and purification of enzymes: Immobilization and Two-Phase Aqueous System (TPAS). Production of antibiotics by microorganisms. Expression systems. Processes for obtaining and recovering bioactive products and vaccines. Market, ethical, legal, and regulatory aspects for the development of these products. An overview of the subject in Brazilian research and industry.

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SALERNO, M.S.; MATSUMOTO, C.; FERRAZ, I. Text for discussion: Biotherapeutics in Brazil: Characteristics, importance, and public policy framework for its development. Institute of Applied Economic Research – IPEA, Rio de Janeiro, 2018.

KUNAMNENI, A.; OGAUGWU, C.; GOLI, A. Enzymes as therapeutic agents. Enzymes in Human and Animal Nutrition: Principles and Perspectives. 2018, p. 301-312.

MUKHERJEE, S. Isolation and Purification of Industrial Enzymes: Advances in Enzyme Technology. Advances in Enzyme Technology Biomass, Biofuels, Biochemicals, 2019, p. 41-70.

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