I.

CATAI A.	Discipline: BOTANY	
B.	Subject Code and Number: I	3OT M06_
C.	Course Title: Plants and Soc	<u>iety</u>
D.	Credit Course units: Units: 4 Lecture Hours per w Lab Hours per week	
	Variable Units : No	
E.	Student Learning Hours: Lecture Hours: Classroom hours: 52 Laboratory/Activity Hours: Laboratory/Activity H	lours <u>52.5 - 52.5</u>
	Total Combined Hours in a	17.5 week term: <u>105 - 105</u>
F.	Non-Credit Course hours per	week
G.	May be taken a total of:	1 2 3 4 time(s) for credit
H.	Is the course co-designated (If YES, designate course Sub	(same as) another course: No X Yes
l.	Course Description:	
	and domestication. Examines plants, and considers the role Stresses the importance of p their ritualistic and pharmaco	lated to plant structure, function, genetics, evolution is the economic, aesthetic, and ecological roles of e of plants as a force in shaping civilizations. lants and plant products in everyday life, as well as logical uses. Presents basic scientific principles and from plants and their products to gain an dist value in today's society.
J.	Entrance Skills	
	*Prerequisite:	No X Yes Course(s)
	*Corequisite:	No X Yes Course(s)
	Limitation on Enrollment:	No X Yes
	Recommended Preparation:	No X Yes Course(s)

Other:	No X Yes

K. Other Catalog Information:

Formerly BOT M06 and BOT M06L

II. COURSE OBJECTIVES

Upon successful completion of the course, a student will be able to:

		Methods of evaluation will be consistent with, but not limited by, the following types or examples.
1	appraise the importance of plants to human society from biological and social perspectives in historical and modern contexts.	Quiz, essay tests, lab practical or classroom discussion
2	demonstrate an understanding of the basic principles of plant biology including cell structure, morphology, anatomy, physiology, and diversity.	Quiz, essay tests, lab practical or classroom discussion
3	recognize the major groups of extant plants.	Quiz, essay tests, lab practical or classroom discussion
4	categorize the types of plant products utilized by different societies including foods, fibers, herbs, spices, dyes, and construction materials.	Quiz, essay tests, lab practical or classroom discussion
5	demonstrate how the principles of Mendelian genetics are used in plant breeding to develop plants with novel traits.	Quiz, essay tests, lab practical or classroom discussion
6	illustrate how evolutionary principles have lead to the diversification of the extant plant groups and influenced modern plant systematics.	Quiz, essay tests, lab practical or classroom discussion
7	assess the role agriculture has played in the development of human culture.	Quiz, essay tests, lab practical or classroom discussion
8	judge the role plants have played in human aesthetics.	Quiz, essay tests, lab practical or classroom discussion
8	judge the role plants have played in human aesthetics.	practical or class

9	contrast the importance of plants in natural versus human- maintained environments.	Quiz, essay tests, lab practical or classroom discussion
10	collect examples of plants that have been historically significant for economic, aesthetic or ritualistic purposes.	Quiz, essay tests, lab practical or classroom discussion
11	explain the basic botanical aspects of important food plants such as legumes, grains, herbs, spices, and fibers.	Quiz, essay tests, lab practical or classroom discussion
12	relate the origin and dissemination of cultivated plants to human activities.	Quiz, essay tests, lab practical or classroom discussion
13	list the steps utilized to conduct scientific inquiries, including both experimental and observation-based approaches.	Quiz, essay tests, lab practical or classroom discussion
14	appraise the possible consequences of current agricultural practices on native ecosystems and plant biodiversity.	Quiz, essay tests, lab practical or classroom discussion

III. COURSE CONTENT

Estimated %	Topic	Learning Outcomes
Lecture (must to	tal 100%)	
3.00%	Plant Physiology	2
3.00%	Plant Reproduction	5, 6, 12
3.00%	Genetics	5
6.00%	Plant Systematics and Evolution	6
6.00%	Plant Diversity	3, 4, 10, 11
4.00%	Origins of Agriculture	7, 12, 14
3.00%	The Grasses	3, 4, 11
3.00%	Legumes	3, 4, 11
3.00%	Starchy Staples	1, 3, 4, 11, 12
6.00%	Herbs and Spices	1, 4, 7, 8, 10, 11, 12
4.00%	Psychoactive Plants	1, 10

4.00%	Poisonous and Allergy Plants	1, 4, 10
3.00%	Fungi in the Natural Environment	1, 2, 10
4.00%	Fungi that Affect Human Health	1, 10
3.00%	Introduction to Plants	1, 2, 13
4.00%	How Plants Function Plant Cells	2
6.00%	Plant Structures	2
4.00%	Plants as a Source of Food Human Nutrition	4, 7, 10, 11, 12
3.00%	Feeding a Hungry World	7, 10, 14
4.00%	Plant Products and Commerce Stimulating Beverages	4, 7, 8
4.00%	Cloth, Paper and Wood	1, 3, 4, 7, 8, 10, 11, 12
6.00%	Plants and Human Health Medicinal Plants	4, 8, 9, 10, 11, 12, 14
3.00%	Impact of Algae and Fungi on Human Affairs Algae	1, 2, 4, 12, 14
6.00%	Beverages and Foods from Fungi	1, 8, 11, 12
2.00%	Plants and the Environment Ecology	9, 13, 14
Lab (must tota	al 100%)	·
3.00%	Scientific Methods	13
6.00%	Cell Structure and Cell Division	2, 5
10.00%	Vegetative Plant Structures	3, 11
10.00%	Flowers and Fruits	2, 3, 4, 5,
6.00%	Plant Evolution and Diversity	5, 6
6.00%	Legumes	2, 3, 11
6.00%	Cereals and Grains	2, 3, 4, 11
6.00%	Starchy Plant Crops	2, 3, 4, 10, 11
6.00%	Fats, Oils, Waxes, Soap and Saponification	10, 11
3.00%	Plant Fibers	10, 11, 12
6.00%	Wood and Paper	2, 3, 4, 8, 10, 11
9.00%	Herbs and Spices	2, 3, 4, 10, 11
4.00%	Medicinal Plants	2, 3, 4, 10

4.00%	Psychoactive Plants and Plant Poisons	2, 3, 4, 10, 11
3.00%	Algae	2, 3, 10
6.00%	Fungi and Fermentation	2, 3, 4, 8, 10
6.00%	Plant Pigments and Dyes	2, 8, 10, 12

IV. TYPICAL ASSIGNMENTS

A. Writing assignments

Writing assignments are required. Possible assignments may include, but are not limited to:		
1	research topics for term papers on plant diversity.	
2	write laboratory reports and journal entries.	

B. Appropriate outside assignments

Appropriate outside assignments are required. Possible assignments may include, but are not limited to:		
1	problem sets characterizing commonly available fruits and vegetables by plant type and family.	
2	oral presentations on plants and human health.	
3	assigned reading from text and readings from scientific literature.	

C. Critical thinking assignments

Critical thinking assignments are required. Possible assignments may include, but are not limited to:		
1	perform validity analysis of lay scientific literature.	
2	determine which plants are best suited for dyes, fiber, foods, and medicines.	
3	discuss strategies on feeding a hungry world.	

V. METHODS OF INSTRUCTION

	INCTION OF INCTION		
Methods of instruction may include, but are not limited to:			
	Distance Education – When any portion of class contact hours is replaced by distance education delivery mode (Complete DE Addendum, Section XV)		
X	Lecture/Discussion		

	Either X Associate Degree Applicable; or Non-associate Degree Applicable
B.	Moorpark College General Education: 1. Do you recommend this course for inclusion on the Associate Degree General Education list? Yes: X No: If YES, what section(s)?
	X A1 - Natural Sciences - Biological Science A2 - Natural Sciences - Physical Science B1 - Social and Behavioral Sciences - American History/Institutions B2 - Social and Behavioral Sciences - Other Social Behavioral Science C1 - Humanities - Fine or Performing Arts C2 - Humanities - Other Humanities D1 - Language and Rationality - English Composition D2 - Language and Rationality - Communication and Analytical Thinking E1 - Health/Physical Education E2 - PE or Dance F - Ethnic/Gender Studies
C.	California State University(CSU) Articulation:
	Do you recommend this course for transfer credit to CSU? Yes: X No:
	2. If YES do you recommend this course for inclusion on the CSU General Education list? Yes: X No: If YES, which area(s)?
	A1 A2 A3 B1 B2 X B3 X B4
	C1
	D6 D7 D8 D9 D10 E
D.	University of California (UC) Articulation:
	1. Do you recommend this course for transfer to the UC? Yes: X No:
	2. If YES do you recommend this course for the Intersegmental General Education Transfer Curriculum (IGETC)? Yes: X No:
	IGETC Area 1: English Communication English Composition Critical Thinking-English Composition Oral Communication IGETC Area 2: Mathematical Concepts and Quantitative Reasoning
	102 10 7 1104 2. Mathematical College and Addititative Medocining

Mathematical Concepts
IGETC Area 3: Arts and Humanities
Arts
Humanities
IGETC Area 4: Social and Behavioral Sciences
Anthropology and Archaeology
Economics
Ethnic Studies
Gender Studies
Geography
History
Interdisciplinary, Social & Behavioral Sciences
Political Science, Government & Legal Institutions
Psychology
Sociology & Criminology
IGETC Area 5: Physical and Biological Sciences (mark all that apply)
Physical Science Lab or Physical Science Lab only (none-sequence)
Physical Science Lecture only (non-sequence)
X Biological Science
Physical Science Courses
Physical Science Lab or Biological Science Lab Only (non-
sequence)
Biological Science Courses
Biological Science Lab course
First Science course in a Special sequence
Second Science course in a Special Sequence
X Laboratory Activity
Physical Sciences
IGETC Area 6: Language other than English
Languages other than English (UC Requirement Only)
U.S. History, Constitution, and American Ideals (CSU
Requirement ONLY)
U.S. History, Constitution, and American Ideals (CSU Requirement ONLY)

XII. REVIEW OF LIBRARY RESOURCES

A. What planned assignment(s) will require library resources and use?

The following assignments require library resources:
Using the Library's print and online resources, conduct literature reviews of

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XIII.

XIV.

XV.

XVI.

botanical resources on topics appropriate to the course; also use Library resources to locate sources in preparation for writing a term paper on such topics as how have particular plants been used in rituals and religious ceremonies. Are the currently held library resources sufficient to support the course assignment? YES: X NO: If NO, please list additional library resources needed to support this course. PREREQUISITE AND/OR COREQUISITE JUSTIFICATION BOT M06: Not Applicable WORKPLACE PREPARATION **BOT M06: Not Applicable** DISTANCE LEARNING COURSE OUTLINE ADDENDUM **BOT M06: Not Applicable GENERAL EDUCATION COURSE OUTLINE ADDENDUM** General Education Division of Learning [check all applicable boxes]: | X | Natural Sciences X Biological Science **Physical Science** Social and Behavioral Sciences American History/Institutions Other Social Science Humanities Fine or Performing Arts Other Humanities Language and Rationality **English Composition** Communication and Analytical Thinking Health/Physical Education Ethnic/Women's Studies **Check either Option 1 or Option 2 OPTION #1:** Moorpark College has already received approval from the CSU and/or UC systems for this course to fulfill a GE requirement. Note: This option applies only to technical revisions and updated courses.

OPTION #2: Moorpark College has not received approval from the

XVII.

XVIII.

XIX.

CSU and/or UC systems for this course to fulfill a GE requirement. This option applies to all new and substantively revised courses. STUDENT MATERIALS FEE ADDENDUM BOT M06: Not Applicable **REPEATABILITY JUSTIFICATION TITLE 5, SECTION 55041** BOT M06: Not Applicable **CURRICULUM APPROVAL** Course Information: Discipline: BOTANY Discipline Code and Number: BOT M06 Course Revision Category: Outline Update Course Proposed By: Originating Faculty Paul Kores 09/06/2018 Faculty Peer: Paul Kores 09/07/2018 Curriculum Rep: Beth Miller 09/08/2018 Department Chair: Jazmir Hernandez 09/06/2018 Division Dean: Carol Higashida 09/10/2018 Approved By: Curriculum Chair: Jerry Mansfield 02/08/2019 Executive Vice President: _____ Articulation Officer: Letrisha Mai 02/06/2019 Librarian: Mary LaBarge 02/05/2019 Implementation Term and Year: Fall 2019 Approval Dates: Approved by Moorpark College Curriculum Committee: 02/19/2019

Approved by Board of Trustees (if applicable): ______

Approved by State (if applicable): 02/25/2019