
**UNIVERSITY OF NORTH ALABAMA
BIOLOGY 363
VASCULAR PLANTS
LECTURE SYLLABUS – FALL 2022**

INSTRUCTOR

DR. FRANCIS J. MENAPACE

OFFICE: 381 SCIENCE BUILDING
OFFICE HOURS: MONDAY - 2:00 -> 4:00
TUESDAY - 1:00 -> 3:00
WEDNESDAY - 2:00 -> 4:00
THURSDAY - 9:00 -> 11:00

COMMUNICATION

OFFICE PHONE: 765 - 4495
OFFICE E-MAIL: fjmenapace@una.edu **!!!DO NOT E-MAIL USING CANVAS!!!**

-- THE OFFICIAL METHOD OF COMMUNICATION AT UNA IS UNA PORTAL,
WITH EMPHASIS PLACED ON UNIVERSITY E-MAIL

TEACHING WEBSITE

WEBSITE: <http://www.buildingthepride.com/faculty/fjmenapace/>
USER NAME: fjmstudent
PASSWORD: studentfjm

COURSE CONTENT

- A COMPREHENSIVE SURVEY OF "TRUE PLANT" PHYLOGENY WITH PARTICULAR EMPHASIS UPON VASCULAR PLANT CYTOLOGY, ANATOMY, MORPHOLOGY, AND REPRODUCTION
- STUDENT SHOULD ACQUIRE SUFFICIENT BOTANICAL KNOWLEDGE TO EXCEL AT THE GRADUATE LEVEL

COURSE PREREQUISITES

-- BIOLOGY 111 & 112 OR EQUIVALENT

TEXTBOOK

-- *BIOLOGY OF PLANTS* - RAVEN ET AL. - 8TH EDITION

ATTENDANCE POLICY

- DAILY ATTENDANCE REQUIRED
- ATTEND CLASS ON TIME
- SIGNED ATTENDANCE SHEET = PRESENT
- SIGN IN OTHERS = ACADEMIC DISHONESTY

!!!LOCKED DOOR POLICY!!!

CLASS ROOM DECORUM

- FOOD AND BEVERAGES - NOT PERMITTED DURING CLASS
- COMPUTERS - NOT PERMITTED DURING CLASS
- CELL PHONES - NOT PERMITTED DURING CLASS

!!!TURN PHONES OFF!!! !!!PLACE IN BOOKBAG!!!

PERSONAL CONDUCT

- APPROPRIATE BEHAVIOR WILL BE DEMANDED DURING LECTURE
 - PLEASE DO NOT CONDUCT PERSONAL CONVERSATIONS DURING LECTURE
-

TESTING POLICY

---LECTURE EXAMS---

- 3 LECTURE EXAMS - 100 PTS EACH
- OBJECTIVE QUESTIONS
EG MULTIPLE CHOICE, TRUE AND FALSE

---TENTATIVE EXAM DATES---

- LECTURE EXAM #1 - LATE SEPTEMBER
- LECTURE EXAM #2 - EARLY NOVEMBER
- LECTURE EXAM #3 - FINALS WEEK / COMPREHENSIVE FINAL

---LECTURE QUIZZES---

- OBJECTIVE QUESTIONS
EG MULTIPLE CHOICE, TRUE AND FALSE, FILL-IN

---MAKE-UP EXAMS & QUIZZES---

- MAKE-UP EXAMS & QUIZZES - NOT POSSIBLE
- EXCEPTIONS:
 - (1) FAMILY DEATH
 - (2) DOCUMENTED ILLNESS

---EXTRA CREDIT---

- EXTRA CREDIT - NOT POSSIBLE

ACADEMIC DISHONESTY

!!!DISHONESTY WILL NOT BE TOLERATED!!!

!!!EXAM MISCONDUCT = COURSE FAILURE!!!

---ACADEMIC DISHONESTY STATEMENT---

STUDENTS OF THE UNIVERSITY ACADEMIC COMMUNITY ARE EXPECTED TO ADHERE TO COMMONLY ACCEPTED STANDARDS OF ACADEMIC HONESTY. ALLEGATIONS OF ACADEMIC DISHONESTY CAN REFLECT POORLY ON THE SCHOLARLY REPUTATION OF THE UNIVERSITY INCLUDING STUDENTS, FACULTY AND GRADUATES. INDIVIDUALS WHO ELECT TO COMMIT ACTS OF ACADEMIC DISHONESTY SUCH AS CHEATING, PLAGIARISM, OR MISREPRESENTATION WILL BE SUBJECT TO APPROPRIATE DISCIPLINARY ACTION IN ACCORDANCE WITH UNIVERSITY POLICY.

INCIDENTS OF POSSIBLE STUDENT ACADEMIC DISHONESTY WILL BE ADDRESSED IN ACCORDANCE WITH THE FOLLOWING GUIDELINES:

1. THE INSTRUCTOR IS RESPONSIBLE FOR INVESTIGATING AND DOCUMENTING ANY INCIDENT OF ALLEGED ACADEMIC DISHONESTY THAT OCCURS UNDER THE INSTRUCTOR'S PURVIEW.
2. IF THE INSTRUCTOR FINDS THE ALLEGATION OF ACADEMIC DISHONESTY TO HAVE MERIT, THEN THE INSTRUCTOR, AFTER A DOCUMENTED CONFERENCE

WITH THE STUDENT, WILL DEVELOP A PLAN FOR DISCIPLINARY ACTION. IF THE STUDENT AGREES TO THIS PLAN, THEN BOTH INSTRUCTOR AND STUDENT WILL SIGN THE AGREEMENT. THE FACULTY MEMBER WILL FORWARD A COPY OF THE SIGNED AGREEMENT TO THE OFFICE OF STUDENT CONDUCT FOR RECORD-KEEPING PURPOSES.

3. IF THE STUDENT DISAGREES WITH THE INSTRUCTOR'S PROPOSED PLAN FOR DISCIPLINARY ACTION AND WISHES TO TAKE FURTHER ACTION, HE/SHE IS RESPONSIBLE FOR SCHEDULING A MEETING WITH THE CHAIR OF THE DEPARTMENT WHERE THE COURSE IS HOUSED TO APPEAL THE PROPOSED DISCIPLINARY PLAN. THE DEPARTMENT CHAIR SHALL MEDIATE THE MATTER AND SEEK A SATISFACTORY JUDGMENT ACCEPTABLE TO THE FACULTY MEMBER BASED ON MEETINGS WITH ALL PARTIES. IF A RESOLUTION IS REACHED, THE DISPOSITION OF THE CASE WILL BE FORWARDED TO THE OFFICE OF STUDENT CONDUCT. IF A RESOLUTION AT THE DEPARTMENTAL LEVEL IS NOT REACHED AND THE STUDENT WISHES TO TAKE FURTHER ACTION, HE/SHE IS RESPONSIBLE FOR SCHEDULING A MEETING WITH THE DEAN OF THE COLLEGE WHERE THE COURSE IS HOUSED TO APPEAL THE PROPOSED DISCIPLINARY PLAN. THE COLLEGE DEAN SHALL MEDIATE THE MATTER AND SEEK A SATISFACTORY JUDGMENT ACCEPTABLE TO THE FACULTY MEMBER BASED ON MEETINGS WITH ALL PARTIES. IF A RESOLUTION IS REACHED, THE DISPOSITION OF THE CASE WILL BE FORWARDED TO THE OFFICE OF STUDENT CONDUCT. IF A RESOLUTION AT THE COLLEGE LEVEL IS NOT REACHED AND THE STUDENT WISHES TO TAKE FURTHER ACTION, HE/SHE IS RESPONSIBLE FOR SCHEDULING A MEETING WITH THE VICE PRESIDENT FOR ACADEMIC AFFAIRS AND PROVOST (VPAA/P) TO APPEAL THE PROPOSED DISCIPLINARY PLAN. THE VPAA/P SHALL MEDIATE THE MATTER AND SEEK A SATISFACTORY JUDGMENT ACCEPTABLE TO THE FACULTY MEMBER BASED ON MEETINGS WITH ALL PARTIES. AFTER REVIEWING ALL DOCUMENTATION, THE VPAA/P MAY, AT HIS/HER DISCRETION, CHOOSE EITHER TO AFFIRM THE PROPOSED ACTION, TO REFER THE CASE TO THE OFFICE OF STUDENT CONDUCT FOR FURTHER REVIEW, OR TO DISMISS THE MATTER DEPENDING ON THE MERITS OF THE CASE. THE FINAL DISPOSITION OF THE CASE WILL BE DISSEMINATED TO APPROPRIATE PARTIES, INCLUDING THE OFFICE OF STUDENT CONDUCT.
4. IF A STUDENT IS ALLOWED ACADEMIC PROGRESSION BUT DEMONSTRATES A REPEATED PATTERN OF ACADEMIC DISHONESTY, THE VPAA/P MAY, AFTER CONSULTATION WITH THE OFFICE OF STUDENT CONDUCT, ASSIGN ADDITIONAL PENALTIES TO THE STUDENT, INCLUDING REMOVAL FROM THE UNIVERSITY.

EVALUATION

-- LECTURE = 3/4 COURSE GRADE
-- LAB = 1/4 COURSE GRADE

---GRADE SCALE---

90% → 100% = A
80% → 89% = B
70% → 79% = C
60% → 69% = D
00% → 59% = F

!!!WELL-BEHAVED STUDENTS WILL RECEIVE BENEFIT OF ANY DOUBT!!!

ASSIGNMENTS

-- MAINTAIN TEXTBOOK READINGS IN ACCORDANCE WITH LECTURE PROGRESS

LEARNING DISABILITY

-- ANY DISABILITY SHOULD BE BROUGHT TO YOUR INSTRUCTOR'S ATTENTION IMMEDIATELY; EVERY EFFORT WILL BE MADE TO ACCOMMODATE THE STUDENT

---EQUAL OPPORTUNITY STATEMENT---

IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AND SECTION 504 OF THE REHABILITATION ACT OF 1973, THE UNIVERSITY OFFERS REASONABLE ACCOMMODATIONS TO STUDENTS WITH ELIGIBLE DOCUMENTED LEARNING, PHYSICAL AND/OR PSYCHOLOGICAL DISABILITIES. UNDER TITLE II OF THE AMERICANS WITH DISABILITIES ACT (ADA) OF 1990, SECTION 504 OF THE REHABILITATION ACT OF 1973, AND THE AMERICANS WITH DISABILITIES AMENDMENT ACT OF 2008, A DISABILITY IS DEFINED AS A PHYSICAL OR MENTAL IMPAIRMENT THAT SUBSTANTIALLY LIMITS ONE OR MORE MAJOR LIFE ACTIVITIES AS COMPARED TO AN AVERAGE PERSON IN THE POPULATION. IT IS THE RESPONSIBILITY OF THE STUDENT TO CONTACT DISABILITY SUPPORT SERVICES TO INITIATE THE PROCESS TO DEVELOP AN ACCOMMODATION PLAN. THIS ACCOMMODATION PLAN WILL NOT BE APPLIED RETROACTIVELY. APPROPRIATE, REASONABLE ACCOMMODATIONS WILL BE MADE TO ALLOW EACH STUDENT TO MEET COURSE REQUIREMENTS, BUT NO FUNDAMENTAL OR SUBSTANTIAL ALTERATION OF ACADEMIC STANDARDS WILL BE MADE. STUDENTS NEEDING ASSISTANCE SHOULD CONTACT DISABILITY SUPPORT SERVICES (256-765-4214).

TITLE IX

-- ANY INCIDENT COVERED UNDER TITLE IX WILL BE IMMEDIATELY FORWARDED TO THE UNIVERSITY TITLE IX COORDINATOR

---TITLE IX STATEMENT---

THE UNIVERSITY OF NORTH ALABAMA HAS AN EXPECTATION OF MUTUAL RESPECT. STUDENTS, STAFF, ADMINISTRATORS, AND FACULTY ARE ENTITLED TO A WORKING ENVIRONMENT AND EDUCATIONAL ENVIRONMENT FREE OF DISCRIMINATORY HARASSMENT. THIS INCLUDES SEXUAL VIOLENCE, SEXUAL HARASSMENT, DOMESTIC AND INTIMATE PARTNER VIOLENCE, STALKING, GENDER-BASED DISCRIMINATION, DISCRIMINATION AGAINST PREGNANT AND PARENTING STUDENTS, AND GENDER-BASED BULLYING AND HAZING.

FACULTY AND STAFF ARE REQUIRED BY FEDERAL LAW TO REPORT ANY OBSERVATIONS OF HARASSMENT (INCLUDING ONLINE HARASSMENT) AS WELL AS ANY NOTICE GIVEN BY STUDENTS OR COLLEAGUES OF ANY OF THE BEHAVIORS NOTED ABOVE. RETALIATION AGAINST ANY PERSON WHO REPORTS DISCRIMINATION OR HARASSMENT IS ALSO PROHIBITED. UNA'S POLICIES AND REGULATIONS COVERING DISCRIMINATION AND HARASSMENT MAY BE ACCESSED AT www.una.edu/titleix. IF YOU HAVE EXPERIENCED OR OBSERVED DISCRIMINATION OR HARASSMENT, CONFIDENTIAL REPORTING RESOURCES CAN BE FOUND ON THE WEBSITE OR YOU MAY MAKE A FORMAL COMPLAINT BY CONTACTING THE TITLE IX COORDINATOR AT 256-765-4223.

!!!HARASSMENT WILL NOT BE TOLERATED!!!

!!!DISCRIMINATION WILL NOT BE TOLERATED!!!

BIOLOGY 363

VASCULAR PLANTS

TEXTBOOK READINGS

PG 001-015 --- BOTANY INTRODUCTION
PG 001-009 --- EVOLUTIONARY ORIGIN OF LIFE
PG 257-259 --- PROKARYOTE CYTOLOGY
PG 259-261 --- PROKARYOTE CELL CYCLE
PG 261-270 --- PROKARYOTE METABOLISM
PG 263-267 --- PHYLUM CYANOPHYTA: CYANOBACTERIA & GREEN BACTERIA
PG 039-041 --- PROKARYOTIC CELLS VS EUKARYOTIC CELLS
PG 246-248 --- EVOLUTIONARY ORIGIN OF EUKARYOTES
PG 246-248 --- EVOLUTIONARY ORIGIN OF PLASTIDS
PG 038-062 --- EUKARYOTE PLANT CYTOLOGY
PG 062-071 --- EUKARYOTE PLANT CELL CYCLE MITOSIS
PG 154-159 --- EUKARYOTE PLANT CELL CYCLE MEIOSIS
PG 250-255 --- SEXUAL LIFE CYCLES
PG 249-250 --- KINGDOM PLANTAE
PG 345-358 --- PHYLUM CHLOROPHYTA: GREEN ALGAE
PG 348-351 --- CLASS CHLOROPHYCEAE: CHLOROPHYTES
PG 351-353 --- CLASS ULVOPHYCEAE: ULVOPHYTES
PG 353-358 --- CLASS CHAROPHYCEAE: CHAROPHYTES

!!!LECTURE EXAM #1!!!

PG 372-373 --- EMBRYOPHYTES DEFINED "LAND PLANTS"
PG 391-398 --- TRACHEOPHYTES DEFINED
PG 538-557 --- TRACHEOPHYTE HISTOLOGY
PG 395-396 --- TRACHEOPHYTE STEM ANATOMY & VASCULAR STELES
PG 396-397 --- TRACHEOPHYTE LEAF MICROPHYLL VS MEGAPHYLL
PG 397-398 --- TRACHEOPHYTE REPRODUCTION
PG 415 --- TRACHEOPHYTE EUSPORANGIUM VS LEPTOSPORANGIUM
PG 397-398 --- TRACHEOPHYTE HOMOSPOROUS VS HETEROSPOROUS
PG 389-402 --- PTERIDOPHYTES DEFINED
PG 402-403 --- PHYLUM RHYNIOPHYTA: RHYNIOPHYTES
PG 403 --- PHYLUM ZOSTEROPHYLLOPHYTA: ZOSTEROPHYTES
PG 403-409 --- PHYLUM LYCOPODIOPHYTA: LYCOPHYTES
PG 403 --- PHYLUM TRIMEROPHYTOPHYTA: TRIMEROPHYTES
PG 409-429 --- PHYLUM PTERIDOPHYTA: FERNS
PG 415-419 --- CLASS OPHIOGLOSSOPSIDA: GRAPE-FERNS & WHISK FERNS

PG 415-419 --- CLASS EQUISETOPSIDA: EQUIPHYTE FERNS
PG 419-428 --- CLASS MARATTIOPSIDA: EUSPORANGIATE TREE-FERNS
PG 419-428 --- CLASS PTERIDOPSIDA: LEPTOSPORANGIATE FERNS

!!!LECTURE EXAM #2!!!

PG 432-433 --- PHYLUM PROGYMNOSPERMOPHYTA: PROGYMNOSPERMS
PG 430-432 --- SPERMATOPHYTES DEFINED
PG 430-432 --- SEED EVOLUTION
PG 433-437 --- GYMNOSPERMS DEFINED
PG 448-450 --- PHYLUM CYCADOPHYTA: CYCADS
PG 450-453 --- PHYLUM GINKGOPHYTA: GINKGO
PG 437-448 --- PHYLUM PINOPHYTA: CONIFERS
PG 453-455 --- PHYLUM GNETOPHYTA: GNETOPHYTES
PG 457-465 --- ANGIOSPERMS DEFINED
PG 477-500 --- ANGIOSPERM EVOLUTION
PG 460 --- PHYLUM MAGNOLIOPHYTA: DICOTS VS MONOCOTS
PG 564-569 --- PHYLUM MAGNOLIOPHYTA: ROOT ANATOMY PRIMARY GROWTH
PG 569-571 --- PHYLUM MAGNOLIOPHYTA: ROOT ANATOMY SECONDARY GROWTH
PG 579-588 --- PHYLUM MAGNOLIOPHYTA: STEM ANATOMY PRIMARY GROWTH
PG 614-626 --- PHYLUM MAGNOLIOPHYTA: STEM ANATOMY SECONDARY GROWTH
PG 624 --- PHYLUM MAGNOLIOPHYTA: STEM MOROPHOLOGY
PG 592-599 --- PHYLUM MAGNOLIOPHYTA: LEAF ANATOMY
PG 592-593 --- PHYLUM MAGNOLIOPHYTA: LEAF MOROPHOLOGY
PG 460-465 --- PHYLUM MAGNOLIOPHYTA: FLOWER MOROPHOLOGY & ANATOMY
PG 465-475 --- PHYLUM MAGNOLIOPHYTA: REPRODUCTION
PG 492-494 --- PHYLUM MAGNOLIOPHYTA: FRUIT MORPHOLOGY & ANATOMY

!!!LECTURE EXAM #3!!!

!!!COMPREHENSIVE FINAL!!!

BIOLOGY 363

VASCULAR PLANTS

STUDY TIPS

---DURING LECTURE---

- ATTEND LECTURE DAILY
- ATTEND LECTURE ON TIME
- READ TEXT PRIOR TO LECTURE
- TAKE YOUR OWN NOTES
- PARTICIPATE CONSTRUCTIVELY DURING LECTURE

---POST LECTURE---

- REVIEW NOTES AFTER EACH LECTURE
- UTILIZE INSTRUCTOR'S OFFICE HOURS
- REVIEW NOTES ENTIRELY OVER THE WEEKEND

---EXAM PREPARATION---

- STUDY ALONE
- GIVE 12+ HARD STUDY HOURS

!!!COLLEGIATE STUDY DISCIPLINE!!!

BIOLOGY 363

VASCULAR PLANTS

ONLINE LECTURE

POWERPOINT SLIDES

GO TO: <http://www.buildingthepride.com/faculty/fjmenapace/> - ENTER

GO TO: BIOLOGY 363 - ENTER

GO TO: ANY LINK LISTED BELOW - ENTER

BI-363-P-01
BI-363-P-02
BI-363-P-03
ETC

!!!PLEASE BE PATIENT!!!

!!!IT MAY TAKE SEVERAL MINUTES TO DOWNLOAD FILE!!!

BIOLOGY 363

VASCULAR PLANTS

PHYLA CLASSIFICATION

-- DOMAIN - EUBACTERIA

-- KINGDOM - MONERA

-- PHYLUM:

-- CYANOPHYTA

- BLUE-GREEN BACTERIA

- GREEN BACTERIA

-- DOMAIN - EUKARYA

-- KINGDOM - PLANTAE

-- PHYLUM:

-- CHLOROPHYTA

- GREEN ALGAE

-- RHYNIOPHYTA

- RHYNIOPHYTES

-- ZOSTEROPHYLLOPHYTA

- ZOSTEROPHYTES

-- LYCOPODIOPHYTA

- LYCOPHYTES

-- TRIMEROPHYTOPHYTA

- TRIMEROPHYTES

-- PTERIDOPHYTA

- FERNS

-- PROGYMNOSPERMOPHYTA

- PROGYMNOSPERMS

-- PTERIDOSPERMOPHYTA

- SEED FERNS

-- CYCADOPHYTA

- CYCADS

-- GINKGOPHYTA

- GINKGO

-- PINOPHYTA

- CONIFERS

-- GNETOPHYTA

- GNETOPHYTES

-- CYCADEOIDOPHYTA

- CYCADEOIDS

-- MAGNOLIOPHYTA

- ANGIOSPERMS

BIOLOGY 363
VASCULAR PLANTS
ON LINE
LECTURE GRADES
LABORATORY GRADES

GO TO: <http://www.buildingthepride.com/faculty/fjmenapace/> - ENTER

GO TO: BIOLOGY 363 - ENTER

GO TO: LECTURE-GRADES / LAB-GRADES - ENTER

GO TO: PROVIDED STUDENT NUMBER

!!!PLEASE BE PATIENT!!!

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!!!LOST HANDOUT: 10 PT PENALTY!!!