**Instructor:**
Dr. Katelyn Wood, PhD  
email: katelyn.wood@uwo.ca

**Office Hours:** By Appointment

**TAs:**  
TBD

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**Lectures:** Weekly Online Web Modules:  
Asynchronous, via OWL

**Lab Sections:** **LIVE, In-Person: HSB-322**  
Kinesiology  
002  Tu  1230-1330  
003  Th  1130-1230  
004  F  0930-1030  
005  Tu  1130-1230  
006  Tu  1730-1830  
007  W  1730-1830  
008  Th  1030-1130  
009  Th  1230-1330

Health Sciences  
002  M  1230-1330  
003  Th  1330-1430  
004  W  1130-1230  
005  W  1030-1130  
006  W  1630-1730  
007  Th  1530-1630  
008  Th  1730-1830

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**NOTE:** This course will be offered as a blended course for the 2021/22 academic year. All course information including grades, web modules, the course schedule, deadlines, and announcements are managed via OWL. Please check the website regularly for course announcements. Log into OWL using your UWO username and password.

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**Calendar Course Description (including prerequisites/anti-requisites):**  
A gross anatomical description of systemic structure and function of the human body, with emphasis on skeletal, muscular and cardiovascular systems. Integration between systems will be discussed using clinical examples related to sport, medicine, and physical therapy. This is an introductory level lecture course for students in the faculty of health sciences.

**Prerequisite(s):**  
*Kinesiology Students:* Completion of yr 1 Kinesiology and registration in the School of Kinesiology  
*Health Studies + Non-FHS Students:* Grade 12U Biology or equivalent is strongly recommended
You are responsible for ensuring that you have successfully completed all course pre-requisites, and
that you have not taken an anti-requisite course.

Unless you have either the requisites for this course or written special permission from your Dean to
enroll in it, you may be removed from this course and it will be deleted from your record. This
decision may not be appealed. You will receive no adjustment to your fees in the event that you are
dropped from a course for failing to have the necessary prerequisites.

Course Description
The course is designed to provide students with a description of the anatomical structure and
function of the human body. The course emphasizes movement and locomotion as it pertains to the
musculoskeletal and cardiovascular systems, but we’ll also touch on neural control and respiration.

Course Learning Outcomes
At the end of this course students should be able to:
- clearly communicate structure location, function and movement using correct anatomical
terms
- outline, using pictures and words, principles of neuronal conduction
- explain the basic structure of the nervous system differentiating between the Central vs
Peripheral nervous systems as well as Somatic vs Autonomic nervous systems
- understand how the autonomic nervous system regulates homeostasis in the body
- identify major bones, joints, muscles, nerves, and vessels, of the upper limb, lower limb,
thorax and pelvis by name, location, and function.
- understand how the heart and lungs interact to form the cardiorespiratory system,
differentiating between systemic and pulmonary circuits
- explain and predict, based upon clinical signs/symptoms, functional implications of
musculoskeletal, neural, and cardiorespiratory changes in aging, exercise and injury

Overall, the spirit of this course is to foster learning, critical thinking, active questioning, and an
appreciation for health and disease from a gross anatomical perspective.

Important Dates:
Term: Sept 8 – Dec 8, 2021
Thanksgiving: October 11
Fall Reading Week: Nov 1-7
Fall Exam Period: Dec 10-21 (Dec 9 = study day)
Midterm: October 14, 2-6pm *online
Bell Ringer Lab Exam: December 6, 10am-6pm (30mins) *in-person

Course Contact
What if I have a question about the course or content?
Your lab TA is your first point of contact. You will be seeing them weekly, and this will allow
for quick and easy communication for all 900+ students enrolled in this course.

I have sensitive information (including academic accommodations) I need to address:
Please contact the instructor, Dr. Wood (katelyn.wood@uwo.ca) directly. I’m very happy to
work with you to find a solution to problems you are encountering. This is a challenging
course, and we’re in the midst of a challenging year. Please do not feel like you are alone,
and please reach out for help.

Whenever possible please use your UWO email address to avoid spam blocking etc. and
note the course code (Kin 2222, HS 2300) in the email subject line.
Weekly Course Schedule *(subject to minor changes until course start date)*

Every week, you are expected to complete the following:
- 2-3 online modules (available, asynchronously via OWL – do this before your lab!)
- 1 laboratory session (live, facilitated by a TA in person, HSB-322)

Here’s an outline of topics we will address in this course.

<table>
<thead>
<tr>
<th>Dates</th>
<th>Unit</th>
<th>Topic</th>
<th>Textbook Chapter Reference</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Sept 8-10</td>
<td>Intro to Anatomy + Bones</td>
<td>1.1-1.4, 1.6-1.8, 9.5, 6.1-6.5, 6.7-6.10</td>
</tr>
<tr>
<td>2</td>
<td>Sept 13-17</td>
<td>Joints, Cartilage + Axial Skeleton</td>
<td>8, 9.1-9.8, 9.15, 7.1, 7.2, 7.4, 7.5</td>
</tr>
<tr>
<td>3</td>
<td>Sept 20-24</td>
<td>Intro to the Nervous System</td>
<td>16.1-16.4, 17.1, 18.1-18.4, 18.6, 18.8</td>
</tr>
<tr>
<td>4</td>
<td>Sept 27-Oct 1</td>
<td>Central + Peripheral Nervous Systems</td>
<td>17.2, 19.1-19.6</td>
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<tr>
<td></td>
<td></td>
<td>Autonomic Nervous System +BP</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Oct 4-8</td>
<td>Motor Units + Muscle Compartments</td>
<td>10.1-10.7, 10.9, 17.4, 17.B, 11.1, 11.3</td>
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<tr>
<td></td>
<td></td>
<td>FALL READING WEEK: NOV 1-7</td>
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<tr>
<td>10</td>
<td>Nov 8-12</td>
<td>Lower Limb 2: Shank to Foot</td>
<td>11U-V, 11.23-11.25, 9F, 9.14</td>
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<tr>
<td>13</td>
<td>Nov 29-Dec 3</td>
<td>Lungs</td>
<td>23.1, 23.3, 23.4, 23.8</td>
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<tr>
<td>14</td>
<td>Dec 6</td>
<td>Bell Ringer (LAB) Exam</td>
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Laboratory Sessions in Anatatorium
- Labs will begin the second week of class (the week of Sept 13th) and will occur EVERY week thereafter until the final week of classes
- They will be TA led, but mostly self-guided for exploration and use of the models
- There will be a lab worksheet for each week which you can do in groups or individually to help guide your model exploration and studying practice
- The TAs will be there to help as needed with the worksheets and models
- Please use this time wisely! The best students come in and use that hour as practice for the bellringer exam. If you’ve never seen or explored the models before, the bell ringer exam will be next to impossible.
Textbook
For this course, we will be using Principles of Human Anatomy, Ed 14 (or 15) by Tortora and Nielsen. The text is available in both hard copy, and e-text. Subscription prices vary depending upon whether you would like a physical copy of the text or a digital downloaded copy.

Options for purchase are as follows:

<table>
<thead>
<tr>
<th>Text Access + duration</th>
<th>Purchase via</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Online, duration of course</td>
<td>WileyPLUS, Bookstore</td>
<td>$75</td>
</tr>
<tr>
<td>2 Permanent PDF download</td>
<td>WileyPLUS</td>
<td>$90</td>
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<tr>
<td>3 Permanent PDF download</td>
<td>WileyPLUS</td>
<td>$109</td>
</tr>
<tr>
<td>4 Hardcopy Text</td>
<td>Bookstore</td>
<td>$149</td>
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</tbody>
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If you’re purchasing via WileyPLUS, enter our course code (given on first day of class). More instructions + discount codes are available on OWL.

Those experiencing financial need should contact Dr. Wood for alternative solutions.

Additional Resources
Wiley PLUS (https://www.wileyplus.com/user-login/)
- Included with your textbook subscription, WileyPLUS has a host of online resources for you to peruse.

Anatomy.TV (https://guides.lib.uwo.ca/c.php?g=270739&p=1871478)
- Available via the library (log in via the proxy), Anatomy.TV contains digital anatomical models which you can manipulate yourself using an internet browser window. Your TAs will be using this tool to demonstrate the anatomy in your laboratory sessions, and you’re encouraged to use this, in conjunction with your text and class notes to gain an appreciation for the 3D nature of bodily structures.

Course Evaluation
Evaluation in this course will be divided across 2 areas. Please note these are subject to change up until the start of the course.

1) Midterm and Final Exams (LECTURE) – 70% (online)
- Midterm 1: Units 1 and 2 (Weeks 1-4) (35%) - October 14 2-6pm
- Final Exam: Midterm content + Units 3, 4, 5 (35%) – Final Exam period, TBA

2) Bellringer (LAB) Exam - 30% (in-person)
- Cumulative for the entire term – December 6 – 30min; scheduled between 10-6pm
- Anatomy model-based assessment, but lecture content may assist your knowledge.
- Further details will be provided at the start of the course.

Online Exams
This year, your midterm and final exams will be written online via OWL. This comes with some interesting considerations and requires incredible integrity from students. Unless directed to do so, I expect all graded work that is submitted to be completed independently. I recognize the value of collaboration and teamwork and will offer multiple opportunities throughout the course to do so. Please use laboratory and review sessions to work as a group and reserve midterm and final exams to show me what you know and have learned independently.
Missed Exams
Only under exceptional circumstances will permission be granted for writing an exam on an alternate date (legitimate medical, religious or academic reasons (e.g. varsity sport athlete). If the exam was missed due to illness, proper documentation must be provided to the School office (academic counselor) as soon as possible (see university policies below for further instruction). You must contact us, your course instructors, to let us know that you have missed the exam. **There will be NO make-up exam for the midterm.** If approved, course weighting for the midterm exam (35%) will be reassigned to the final exam. The final written makeup examinations may consist of short and long answer questions, case studies and/or image-based questions based on anatomical and clinical material from lectures.

If you miss your bellringer exam, with appropriate documentation, you are entitled to write a make-up exam. *The make-up bellringer exam will occur at the end of the following term when the course is offered again.* You will receive a grade of ‘INCOMPLETE’ until such time that you complete the bell ringer exam.

Copyrighted Material
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How to Succeed in this Course (and others!)

As a university student, you are responsible for your learning – but that doesn’t mean you are on your own! There are an incredible amount of resources and support available to you throughout your studies. Still, a major hurdle students experience is not knowing how to time manage or study effectively – here’s some resources & tips to get you started:

Studying Effectively:
Tactics like highlighting and rereading feel good, but actually aren’t the most effective strategies for long-term knowledge retention. Anatomy is challenging for most because of the volume of information, and the integration required between systems and topics to understand how the body functions as a whole. This is where that long-term retention is critical. The most effective way to study is via a technique called **successive relearning** in which you quiz yourself, practice recalling answers and space out your studying. Here’s how you do it:

1) Figure out what to study, and when. Plan out several smaller sessions across a week instead of one big one. For the biggest advantage, plan to begin reviewing material 2 days after you’ve learned it. Use your calendar to plan this out
2) Practice recalling information. It may be as simple as covering up text or labels in your notes and trying to remember what was there (you can even leave gaps to write in your answers), or creating flashcards to practice with.
3) Do this often, and replace information that you easily recall successfully with more challenging or new information as your courses progress.
4) Our use of Adaptive Practice in WileyPLUS will help with this!

For more information on how and why successive relearning works, and links to additional reliable resources check out my OpEd in the Conversation Canada:

Another great resource is the learning scientists ([https://www.learningscientists.org/](https://www.learningscientists.org/)). This group of educators and researchers have developed a ton of free resources explaining 6 of the most effective ways to study (spaced and retrieval practice are 2!). Be sure to check out their website and consider how these approaches might fit with your study practice. I’ll be incorporating many of these throughout your laboratory sessions.

Tips for Effective Time Management:
1) Pull out your calendar now… right now.
2) Make sure you schedule in all of the non-negotiable dates and times (like in person-lectures, exams, due dates, family gatherings, holidays etc).
   - For important dates/appointments set reminder emails. For example, 2 weeks before an essay is due, set a reminder that the deadline is coming.
3) Look at each of your courses and identify what tasks you will need to complete weekly. Physically schedule them in. This should include online course components, quizzes, assignments, and studying
4) Around those, schedule in other aspects of your daily life. For example, time for eating + meal prep, sleeping, household chores, working out, spending time in nature, hobbies and interests. It feels silly to lay everything out – but once you know how much time you have, and you have a plan you’re far more likely to be successful
Course/University Policies

1. **Statement on Use of Personal Response Systems (“Clickers”):** If Personal Response Systems (“Clickers”) are used in the course, a reference to the Guidelines for their use (Guidelines are shown below). Instructors are to communicate clearly to students information on how clickers are used including: how the student’s privacy will be protected, how clickers may be used by the instructor for data gathering and for evaluating the students, and why they cannot be used by anyone but the student (since the students involved in misuse of a clicker may be charged with a scholastic offence).

2. **Academic offences:** They are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following Web site:  
   https://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#Page_20

   A) Students must write their essays and assignments in their own words. Whenever students take an idea, or a passage from another author, they must acknowledge their debt both by using quotation marks where appropriate and by proper referencing such as footnotes or citations. Plagiarism is a major academic offence (see Scholastic Offence Policy in the Western Academic Calendar). All required papers may be subject to submission for textual similarity review to the commercial plagiarism detection software under license to the University for the detection of plagiarism. All papers submitted for such checking will be included as source documents in the reference database for the purpose of detecting plagiarism of papers subsequently submitted to the system. Use of the service is subject to the licensing agreement, currently between Western University and Turnitin.com (http://www.turnitin.com)

   B) Computer marked multiple-choice tests and/or exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating.

3. **Electronic Device Usage:**
   **During Exams** - Unless you have medical accommodations that require you to do so, or explicit permission from the instructor of the course, you may not use any of the following electronic devices during ANY of the tests, quizzes, midterms, examinations, or other in-class evaluations: cellphones, smart phones, smart watches, smart glasses, audio players or recorders of any sort, video cameras, video games, DVD players, televisions, laptop/notebook/netbook computers, flashlights or laser pointers.

   **During In Person Lectures and Tutorials:** Although you are welcome to use a computer during lecture and tutorial periods, you are expected to use the computer for scholastic purposes only, and refrain from engaging in any activities that may distract other students from learning. Please be respectful to your fellow students and turn the sound off. If the professor receives complaints from other students regarding noise or other disruptive behavior (e.g. watching videos on YouTube.com, updating your Facebook status, playing Solitaire), your classroom privileges will be revoked. From time to time, your professor may ask the class to turn off all computers, to facilitate learning or discussion of the material presented in a particular class. **Unless explicitly noted otherwise, you may not make audio or video recordings of lectures – nor may you edit, re-use, distribute, or re-broadcast any of the material posted to the course website.**

4. **Health and Wellness:** As part of a successful undergraduate experience at Western, we encourage you to make your health and wellness a priority. Western provides several on-campus health-related services to help you achieve optimum health and engage in healthy living while pursuing your degree. Information regarding health and wellness-related services available to students may be found at http://www.health.uwo.ca/.
Students who are in emotional/mental distress should refer to Mental Health@Western (Mental Health Support - Health & Wellness - Western University (uwo.ca)) for a complete list of options about how to obtain help.

5. **Support Services:** There are various support services around campus and these include, but are not limited to:

1. **Student Development Centre** – [http://academicsupport.uwo.ca/](http://academicsupport.uwo.ca/)
2. **Student Health & Wellness** – [https://www.uwo.ca/health/](https://www.uwo.ca/health/)

Accommodation, Illness Reporting and Academic Considerations

**Academic Calendar - Western University (uwo.ca)**

**Accommodation Policies**

Students with disabilities work with Accessible Education (formerly SSD) which provides recommendations for accommodation based on medical documentation or psychological and cognitive testing. The accommodation policy can be found here: [Academic Calendar - Western University (uwo.ca)](http://www.registrar.uwo.ca/)

**Academic Consideration for Student Absence**

[https://www.uwo.ca/fhs/kin/undergrad/academic/consideration/index.html](https://www.uwo.ca/fhs/kin/undergrad/academic/consideration/index.html)

Students will have up to two (2) opportunities during the regular academic year to use an on-line portal to self-report an absence during the term, provided the following conditions are met: the absence is no more than 48 hours in duration, and the assessment for which consideration is being sought is worth 30% or less of the student’s final grade. Students are expected to contact their instructors within 24 hours of the end of the period of the self-reported absence, unless noted on the syllabus. Students are not able to use the self-reporting option in the following circumstances:

- for exams scheduled by the Office of the Registrar (e.g., December and April exams)
- absence of a duration greater than 48 hours,
- assessments worth more than 30% of the student’s final grade,
- if a student has already used the self-reporting portal twice during the academic year

If the conditions for a Self-Reported Absence are *not* met, students will need to provide a Student Medical Certificate if the absence is medical, or provide appropriate documentation if there are compassionate grounds for the absence in question. Students are encouraged to contact their Faculty academic counselling office to obtain more information about the relevant documentation.

Students should also note that individual instructors are not permitted to receive documentation directly from a student, whether in support of an application for consideration on medical grounds, or for other reasons. **All documentation required for absences that are not covered by the Self-Reported Absence Policy must be submitted to the Academic Counselling office of a student's Home Faculty.**

For Western University policy on Consideration for Student Absence, see [Academic Calendar - Western University (uwo.ca)](http://www.registrar.uwo.ca/) and for the Student Medical Certificate (SMC), see: [http://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf).

**Religious Accommodation**

Students should consult the University’s list of recognized religious holidays, and should give reasonable notice in writing, prior to the holiday, to the Instructor and an Academic Counsellor if
their course requirements will be affected by a religious observance. Additional information is
given in the Western Multicultural Calendar.

6. **Examination Conflicts:** A student with examinations having flexible submission times (e.g.,
where one or more examination is a take-home examination) cannot request alternative
arrangements unless a conflict cannot be avoided by rescheduling writing the exam to a different
time within the window specified by the instructor. This applies to direct conflicts as well as “heavy
load” conflicts (e.g., three exams within a 23-hour period). The student should discuss any concerns
about a potential conflict and/or request accommodation with their academic counselling unit prior to
the deadline to drop a course without academic penalty.

In the case of online examinations, an “Examination Conflict Room,” which may be assigned when a
student is scheduled to write two proctored exams concurrently, will be interpreted as arrangements
for continuous proctoring.

7. **Grades:** Where possible assignment objectives and rubrics will be posted on OWL. Should you
have a concern regarding the grade you received for an assignment or feel that it is unfair in any
way, you must wait 24 hours from the receipt of the assignment to approach the instructor or TA. In
doing so, please make an appointment and prepare in writing, with evidence, why you feel your
grade is inappropriate. Please be aware that in requesting a grade reassessment, your grade could
go up/down/or stay the same. Note that calculations errors (which do occur!) should be brought to
my attention immediately.

At least three days prior to the deadline for withdrawal from a 1000- or 2000-level course without
academic penalty, students will receive assessment of work accounting for at least 15% of the final grade.

- November 12th, 2020 (for first term half-courses)
- November 30th, 2020 (for full-year courses)
- March 7th, 2021 (for second term half-or full year courses)

**Grade Descriptions:**

- A+  90-100  One could scarcely expect better from a student at this level
- A   80-89   Superior work that is clearly above average
- B   70-79   Good work, meeting all requirements and eminently
- C   60-69   Competent work, meeting requirements
- D   50-59   Fair work, minimally acceptable.
- F   below 50  Fail

**Rounding of Grades** (for example, bumping a 79 to 80%):
This is a practice some students request. **This practice will not occur here.** The edges of this
course are clear and sharp. The mark attained is the mark you achieved and the mark assigned;
there is no rounding to the next grade level, or ‘giving away’ of marks. Please don’t ask me to do this
for you; the response will be “please review the course outline where this is presented”.

**Contingency Plan for an In-Person Class Pivoting to 100% Online Learning**
In the event of a COVID-19 resurgence during the course that necessitates the course delivery
moving away from face-to-face interaction, all remaining course content will be delivered entirely
online, either synchronously (i.e., at the times indicated in the timetable) or asynchronously (e.g.,
posted on OWL for students to view at their convenience). The grading scheme will **not** change. Any
remaining assessments will also be conducted online as determined by the course instructor

8. **Classroom Behaviour:** Synchronous classes will begin promptly at the time specified at the
top of page one of this syllabus. In the event that you arrive late, please enter our virtual
classroom with a minimal disturbance to the class. Please be sure you are muted prior to joining.
9. **Online Etiquette**: Some components of this course will involve online interactions. To ensure the best experience for both you and your classmates, please honour the following rules of etiquette:

- please "arrive" to class on time
- please use your computer and/or laptop if possible (as opposed to a cell phone or tablet)
- ensure that you are in a private location to protect the confidentiality of discussions in the event that a class discussion deals with sensitive or personal material
- to minimize background noise, kindly mute your microphone for the entire class until you are invited to speak, unless directed otherwise
- In order to give us optimum bandwidth and web quality, please turn off your video camera for the entire class unless you are invited to speak
- [suggested for cases where video is used] please be prepared to turn your video camera off at the instructor’s request if the internet connection becomes unstable
- unless invited by your instructor, do **not** share your screen in the meeting

The course instructor and/or TAs will act as moderator for the class and will deal with any questions from participants. To participate please consider the following:

- if you wish to speak, use the “raise hand” function and wait for the instructor to acknowledge you before beginning your comment or question
- remember to unmute your microphone and turn on your video camera before speaking
- self-identify when speaking.
- remember to mute your mic and turn off your video camera after speaking (unless directed otherwise)

General considerations of “netiquette”:

- Keep in mind the different cultural and linguistic backgrounds of the students in the course.
- Be courteous toward the instructor, your colleagues, and authors whose work you are discussing.
- Be respectful of the diversity of viewpoints that you will encounter in the class and in your readings. The exchange of diverse ideas and opinions is part of the scholarly environment. "Flaming" is never appropriate.
- Be professional and scholarly in all online postings. Cite the ideas of others appropriately.

Note that disruptive behaviour of any type during online classes, including inappropriate use of the chat function, is unacceptable. Students found guilty of Zoom-bombing a class or of other serious online offenses may be subject to disciplinary measures under the Code of Student Conduct.

10. **Online Learning Support**: If you require support with online learning tools and resources, please refer to the Faculty of Health Sciences Online Teaching and Learning Support [Jira request links](https://www.uwo.ca/univsec/pdf/board/code.pdf) for students

11. **Student Code of Conduct**: The purpose of the Code of Student Conduct is to define the general standard of conduct expected of students registered at Western University, provide examples of behaviour that constitutes a breach of this standard of conduct, provide examples of sanctions that may be imposed and set out the disciplinary procedures that the University will follow. For more information, visit [https://www.uwo.ca/univsec/pdf/board/code.pdf](https://www.uwo.ca/univsec/pdf/board/code.pdf)