

## Mathematics Education 339-88 Tentative Syllabus/Schedule, Fall Semester 2018

### Place and Time:

Face-to face classes: Sat. 11/3/18 & 12/1/18 9:00-12:00 pm, Sci. A212

Online (see page 4 for details)

### Instructor and Office Hours:

Dr. Senfeng Liang

Office: D329 Science

Email: sliang@uwsp.edu

M 10:10– 10:50; T 1:00 –2:50 (A 24-hour noticed needed), or by appointment

If you need to meet me, notify me in advance (check this [google link](#)). Please write **M Ed339-88 \_ your full official name** in the subject line of the email. For example, it should look like M Ed339-88\_First name Last name. Always use **full official name** in All communications (e.g., at the end of an email). **No nick name** please!

### Course Description:

**M ED 339. Teaching Elementary School Mathematics II.** 1 cr. Principles, goals, methods, and techniques. Only for transfer students who did not take Math/Ed 338 at UWSP. Prereq:3 credits of mathematics equivalent to MATH 338

### Course Goals:

1. To develop pedagogical content knowledge related to K-6 mathematics, particularly in the domains of geometry and measurement.
2. To become familiar with the NCTM (2000) K-6 geometry and measurement standard and Common Core State Standards for Mathematics (CCSS-M).
3. To become familiar with and implement curricular materials and activities that support standards-based teaching in geometry and measurement.

### Required Materials:

Binders to organize class handouts and assignments; colored pencils, compass, protractor, and a scientific calculator (TI-30 type is sufficient; no other media device can be used as a calculator)

### Texts:

Van de Walle, J.A., Karp, K.S., & Bay-Williams, J. M. (2012). *Elementary and Middle School Mathematics: Teaching Developmentally* (8<sup>th</sup> ed.). Boston, MA: Pearson. (**TEXT RENTAL**)

National Council of Teachers of Mathematics. (2000). *Principles and Standards for School Mathematics*. Common Core State Standards for Mathematics.

Additional materials are possible (will be provided as handouts in paper or electronic version).

### Tentative Course Requirements:

#### *1 Teaching Practicum*

You will prepare and teach two lessons (i.e., one assessment and one lesson) in a local school classroom. The assessment and lesson plan should demonstrate creativity, knowledge of mathematics, knowledge of mathematics pedagogy, and knowledge of generally accepted pedagogical practices. **The content should be within this course (i.e., geometry and measurement)**. After you finish the assessment or teaching, you will write a reflection for each visit. More specifics about this activity will be provided later.

#### *2 Reading comments:*

You will be required to read several chapters from the book of Van De Walle et al. and other materials. For each reading assignment you read, you need to write three comments/reflections (but not summaries) and two

questions and review at least three other people's comments/reflections or questions (be specific). This activity will enrich discussions of these chapters. Peer reviews like this won't count: "I agree with what you said."

Note: Peer-review of writings. For all your comments/writings, you will need to review 1-3 papers. The reviews will help the authors to write a stronger report. Thus, even though positive encouraging comments are appreciated it is more valuable to provide the authors with **constructive suggestions**. Revised writings based on peer-reviews tend to receive higher points than those submitted without any insights from others. For writings need to peer-reviewed, we will use google documents. Thus you need to create a google account. **Fail to complete peer-review will result in losing your points substantially. Fail to mark the reviewers' status will also result in losing your points.**

### **Class Responsibilities:**

#### *1 Attendance and Participation:*

Attendance and full participation are very important for this course. Absences must be documented either medically or justified by other reasons considered valid by the University. If you have evidence for medical reasons please contact Disability and Assistive Technology Center (DATC) (609 Albertson Hall, 715-346-3365) and ask them to notify me the reason of absence. **If you have one absence, you miss 3 points; if you have two absences you will receive a letter grade F for this course. You are responsible for all announcements and assignments made in your absences.** Major emergencies will be handled on an individual basis. **Media phone devices are not to be turned on or used during class time.** Activities such as texting messages or using the internet via your cellphone in class time will be counted as non-participation and result in losing your participation points.

#### *2 Conduct:*

I will treat you as professionals and I expect the same in return.

#### *3 Late Assignments and make-ups:*

No late Assignments will be accepted unless you have a reason that the university deems sufficiently compelling. Even if your assignment is accepted, you may lose points for being late. All written assignments must be submitted on or before the time/date indicated.

#### *4 Academic Integrity:*

"Students are responsible for the honest completion and representation of their work, for the appropriate citation of sources, and for respect of others' academic endeavors. Students who violate these standards will be confronted and must accept the consequences of their actions." A description of your rights and responsibilities as a member of the UWSP community can be found at <http://www.uwsp.edu/dos/Pages/Academic-Misconduct.aspx>

Individual assessments, such as individual assignments and exams, must be completed by you alone. Work completed collaboratively must clearly identify all contributors. *When utilizing outside references, all sources must be fully and accurately cited (use APA format).* All essays should be typed, single-spaced with 1" margins on all sides. You must use 12 pt. Times New Roman font. You should learn the APA format at: <https://owl.english.purdue.edu/owl/section/2/10/>

#### *5 More information of assignments:*

All essays should be typed, single-spaced with 1" margins on all sides. **You must use 12 pt. Times New Roman font.** You should learn the APA format at: <https://owl.english.purdue.edu/owl/section/2/10/>

*6 Disability Accommodations:* The Americans with Disabilities Act (ADA) is a federal law requiring educational institutions to provide reasonable accommodations for students with disabilities. For more information about UWSP's policies, check here:

<http://www.uwsp.edu/stuaffairs/Documents/RightsRespons/ADA/rightsADAPolicyInfo.pdf>

If you have a disability and require classroom and/or exam accommodations, please register with the Disability and Assistive Technology Center and then contact me at the beginning of the course. I am happy to help in any way that I can. For more information, please visit the Disability and Assistive Technology Center, located on the 6th floor of the Learning Resource Center (the Library). You can also find more information here: <http://www4.uwsp.edu/special/disability/>

#### *7 Religious Beliefs:*

Students' sincerely held religious beliefs will be reasonably accommodated with respect to all examinations and other academic requirements. According to UWS 22.03, you must notify the instructor within the first three weeks of classes about specific dates which require accommodation.

*8 Policies:* UW-Stevens Point values a safe, honest, respectful, and inviting learning environment. In order to ensure that each student has the opportunity to succeed, a set of expectations for all students and instructors have been developed. This set of expectations is known as the Rights and Responsibilities document, and it is intended to help establish a positive living and learning environment at UWSP. Check here for more information: <http://www.uwsp.edu/dos/Documents/CommunityRights.pdf>

*9 Extra credits:* You may earn extra credits in several ways, such as (other opportunities may be possible):

- a. If you volunteered to show your work on board you earn 0.5 point for each class. Even if you volunteered twice or more than twice, you earn 0.5 point for each class.

#### **ASSESSMENT INDICATORS (tentative):**

<i>Tasks</i>	<i>counts</i>	<i>points</i>	<i>notes</i>
Attendance and Participation	N/A	5	individually
Other assignments (homework, quizzes, etc.)	varies	varies	individually
Reading comments	3*7	21	2 points for each reading' comments; 1 point for peer review
Practicum 1 (assessment)	1*5	5	in pairs or individually
Practicum 1 (assessment) reflection	1*5	5	in pairs or individually
Practicum 2 (Lesson plan)	1*15	15	in pairs or individually
Practicum 2 (Lesson) reflection	1*15	15	in pairs or individually

<i>Letter Grade</i>	<i>Percentage</i>	<i>Letter Grade</i>	<i>Percentage</i>
A	93-100%	C	73-76.99%
A-	90-92.99%	C-	70-72.99%
B+	87-89.99%	D+	67-69.99%
B	83-86.99%	D	60-66.99%
B-	80-82.99%	F	0-59.99%
C+	77-79.99%		

#### **Besides office hours, there are many resources available to you!**

Tutoring in Math and Science: Drop-in help and by appointment; TLC; Free!  
 WRITING ASSISTANCE: Drop-in help and by appointment; TLC; Free!  
 MATH ROOM: Drop-in help and by appointment; SCI A113; Free!  
 STUDY GROUPS: Meet with your peers on a regular basis.

**Estimated time needed for this course**

University guidelines suggest that students may need to spend 2-3 hours of preparation outside of class for every hour spent in class. If you have trouble in meeting or understanding course expectations, please come in during office hours, or make an appointment to discuss this with me immediately.

**Tentative Schedule – Math Ed 339-88, Fall 2018**

<b>W</b>	<b>Date</b>	<b>Readings and activities (Van De Walle etc.)</b>	<b>Assignments due</b>
9	10/27	Introduction 1. CCSS-M grade 3-6*	Comment 1 due W. 10/31*
10	11/3	2. VdeW Chp20 (geometry), pp. 402-433* 2D, 3D shapes constructions	Comment 2 due F. 11/2*
11	11/10	3. NCTM a (geometry), pp. 41-44, 96-102, 164-170* <i>Practicum 1 (assessment plan)</i>	Comment 3 due F. 11/9* Assessment draft due on T., 11/6 Peer-review and final version due on R. 11/8
12	11/17	4. Other readings A* <b>Practicum 1 (assessment)</b> (Note: choose your own date (11/12-11/16) and location for practicum; 40-45 minutes)	Comment 4 due F. 11/16* Practicum 1 (assessment) reflection: draft due on Sat., 11/17; peer-review and final version due on Sun. 11/18
13	11/24	4. NCTM b (measurement), pp. 44-47, 102-107, 170-175*	Comment 5 due F. 11/23*
14	12/1	5. VdeW Chp19 (measurement), pp. 375-401* <i>Practicum 2 (lesson plan) review</i>	Lesson plan draft due on T., 11/27; Peer-review and final version due on R. 11/29 Comment 6 due F. 11/30*
15	12/8	7. Other readings B* <b>Practicum 2 (lesson)</b> (Note: choose your own date (12/3-12/7) and location for practicum; 40-45 minutes)	Practicum 2 (lesson) reflection: draft due on Sat., 12/8; peer-review and final version due on Sun. 12/9 Comment 7 due F. 12/7*

## Important Notes:

1. Except chapter 19 and 20 from the textbook, all other reading materials are available on D2L.
2. All reading comments are on google. However, practicum assessment, lesson plan, and reflections need to be submitted on google AND D2L. Reading are marked with "\*".
3. Assignments on D2L/Google are always due 11:30pm on that day.
4. MARK ALL DUE DATES ON YOUR CALENDAR (PLEASE DO NOT EXPECT ME TO REMIND YOU THESE DUE DATES).
5. Grades given during the semester may not be disputed after one week of receiving the grade.
6. Calculators may or may not be used, depending on the tasks.
7. If you find any errors or have any questions, please contact me.