About the course

Mayo Clinic’s Microvascular Surgery Skills Training Course is a five-day program focused on skill development in the use of microvascular surgical techniques. Limited to four attendees per session, the course allows each attendee to receive extensive, individualized training. The instruction incorporates demonstrations, microvascular skills practice and detailed handouts.

Attendees will work with the course instructor to schedule a week that is both convenient and well-suited to individual skill levels. To register, call 507-284-8313 or email microlab@mayo.edu.

COURSE LEARNING OBJECTIVES
Upon conclusion of this program, participants should be able to:

- Explain how to properly use an operating microscope.
- Demonstrate skills necessary to complete microvascular anastomoses, which include end to end arterial, end to end venous, end to side and interpositional vein grafts.
- Demonstrate skills necessary to complete a microvascular anastomosis using the coupler device.
- Demonstrate skills necessary to complete nerve coaptation utilizing nerve conduits.

Attendance at this Mayo course does not indicate nor guarantee competence or proficiency in the performance of any procedures which may be discussed or taught in this course.

INTENDED AUDIENCE
This course is designed for practicing surgeons, residents and fellows in surgery programs that utilize microvascular procedures. In addition, physician’s assistants, research personnel, and other members of the surgical team assisting in microvascular procedures will also benefit.

LOCATION
Mayo Clinic’s Microvascular Surgery Skills Training Course will be held in the Stable Building on the Mayo Clinic Campus, 150 South Third Street Southwest, Rochester, Minnesota. Laboratory facilities are easily accessible by skyway and pedestrian subway, which connect Mayo Clinic to shops, restaurants, and hotels.

REGISTRATION
To schedule your week of instruction, call William J. Anding, or Lindsey Carlson at 507-284-8313 or email microlab@mayo.edu. The registration fee includes tuition and training materials. Lab space limits enrollment to four attendees per weekly session. A letter of confirmation will be sent upon receipt of payment and completed registration form.

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**TYPICAL SCHEDULE**

**MAYO CLINIC’S MICROVASCULAR SURGERY SKILLS TRAINING COURSE**

Mayo Clinic’s Microvascular Surgery Skills Training Course is intended to provide participants the necessary skills to perform vascular anastomoses of small blood vessels. Proper use of the operating microscope, microsurgical instruments and suture will be taught. All surgical procedures are performed in the laboratory rat femoral artery and vein model. Importantly, assessment of proper technique includes not only the critique and instruction provided by the instructor, but also, direct observation of vessel patency after a 12–24 hour period. Records are kept of all surgical outcomes. A typical schedule, varying with individual participant experience, would be:

**MONDAY**

- Work on practice board to become proficient with microscope and get familiar with instruments and basic knot tying. Instructor demonstrates with artificial bio tissue tube to simulate arterial anastomosis. The attendees then proceed on his or her own under the direction of the instructor.

**TUESDAY**

- Instructor conducts and end to end arterial anastomosis in the laboratory rat model. Attendees then perform end to end arterial anastomosis under the direction of the instructor.

**WEDNESDAY**

- Review previous day’s work. Instructor demonstrates end to end venous anastomosis. Students complete with venous end to end anastomosis under the direction of the instructor.

**THURSDAY**

- Review previous day’s work. Instructor demonstrates end to side anastomosis. Students perform end to side anastomosis under the direction of instructor.

**FRIDAY**

- Review previous day’s work. Attendees will do an assessment of skills by performing both end to end artery and venous anastomosis in 2 hours or less. Upon completion of assessment, any final questions will be answered and attendees will be dismissed.

**LODGING ACCOMMODATIONS**

Guest rooms have been reserved for attendees and their guests with special course rates at the following downtown Rochester hotels. In order to receive the special rate, please identify yourself as a Mayo employee.

- **Doubletree Hotel**
  - 150 S. Broadway
  - 507-281-8000
  - $159 per night
- **Hilton Garden Inn**
  - 225 South Broadway
  - 800-445-8667 or 507-281-8000
  - $149 per night
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  - 225 South Broadway
  - 800-445-8667 or 507-281-8000
  - $149 per night

Please note: several cities in the United States are named Rochester. When you make airline reservations and check your baggage, be sure that your destination is Rochester, Minnesota (RST) and that your baggage has been properly tagged.

Travel arrangements are the sole responsibility of the individual registrant.