



**UNIVERSIDADE FEDERAL DE SANTA CATARINA  
CENTRO DE CIÊNCIAS FÍSICAS E MATEMÁTICAS  
PÓS-GRADUAÇÃO EM MATEMÁTICA PURA E APLICADA**

**MTM410051 Differentiable Manifolds**

Pre-requisite: x-x

Weekly lesson hours: 06h

**Discipline syllabus:** Differentiable Varieties, Differentiable Applications among Varieties, Transversality, Integration in Varieties and Lie Groups.

**BIBLIOGRAPHIC REFERENCES**

The numbering attributed to the bibliographic references in each section represents the order, in importance, suggested by the present proposal.

Section 1

[ 1 ] - Bredon, Glen E.. - Topology and Geometry, GTM 139, Springer.

[ 2 ] - Warner, F. - Foundations of Differentiable Manifolds and Lie Groups - GTM 94, Springer.

[ 3 ] - Guillemin, V. and Pollack, A. - Differential Topology - PrenticeHall.

Section 2

[ 1 ] - Warner, F. - Foundations of Differentiable Manifolds and Lie Groups - GTM 94, Springer.

[ 2 ] - Spivak, M. - Differential Geometry - vol I, Publish or Perish.

[ 3 ] - Bredon, Glen E.. - Topology and Geometry, GTM 139, Springer.